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ABSTRACT

This report covers the 1986-87 testing year in which eight colleges or schools at the University of Texas (UT) at Austin participated in the credit-by-examination program. Test results in 18 subject areas are reported. The summary section includes a discussion of the overall impact of credit-by-examination on eight participating schools or colleges, as well as comparisons of the 1986-87 test results with results from preceding years. Evaluations of 26,023 test scores, covering 51 subject areas in 171 courses taught in 36 departments or divisions are recorded in this report. Of the 10,735 individuals who participated, 29% earned no credit eligibility, 20% earned between one and three semester hours of credit eligibility, 18% merited between four and six semester hours, and 25% earned from seven to 18 semester hours. At the upper range of the scale were 6% who earned between 19 and 30 semester hours and 2% who qualified for more than 30 semester hours. Four types of tests were used in the credit-by-examination program: (1) UT Austin Tests for Credit constructed locally by certain academic departments; (2) College Board Achievement Tests; (3) College Board College Level Examination Program Subject Examinations; and (4) College Board Advanced Placement Examinations. (KSA)

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CREDIT BY EXAMINATION AT THE UNIVERSITY OF TEXAS
AT AUSTIN
1986-1987

Susan S. Mahoney

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September 1987

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CREDIT BY EXAMINATION AT THE UNIVERSITY OF TEXAS AT AUSTIN
1986-1987

Susan S. Mahoney

The Measurement and Evaluation Center (MEC) is responsible for coordinating credit by examination at The University of Texas at Austin. Policies governing each part of the program are made by the participating academic departments. In administering the testing program, MEC implements those policies.

Credit earned by examination at U.T. Austin is equivalent to credit earned by taking the course, except that credit by examination cannot be counted as credit earned in residence. Students or former students who earn credit by examination may petition for the credit for which they are eligible as soon as they choose to do so. Other persons may receive the credit for which they are eligible only after they enroll as students at U.T. Austin.

For a student who attended college prior to taking the examination, eligibility for credit depends upon the college courses studied before taking the examination. For example, credit by examination is not awarded if the student received college credit or a failing grade for the same course, or its equivalent, prior to taking the examination. To receive credit by examination, students must also meet all other conditions of eligibility established by the University, the schools/colleges, and the academic departments.

The reader should be aware that figures relating to eligibility for credit are derived from comparisons of test scores with score ranges qualifying students for credit, that some students do not claim all of the credit for which they are eligible, and that credit claimed by the eligible student may or may not be reported by MEC to the Registrar in the testing year covered by this report.

This report covers the 1986-1987 testing year, which began generally speaking in June, 1986, and continued through May, 1987. Scores from the various testing categories were evaluated during those months, although some of the tests may have been administered prior to June, 1986.

During the 1986-1987 testing year, eight colleges/schools at U.T. Austin participated in the credit-by-examination program. Evaluations of 26,023 test scores, covering 51 subject areas in 171 courses taught in 36 departments/divisions, are recorded in this report. Because many students took more than one test, the total number of tests exceeds the actual number of persons who attempted to earn credit by examination. There were 10,735 participants in the credit-by-examination program during the year; 7,642 (71%) of those persons were successful in earning credit for at least one course, with 13,514 qualifying test scores generating a total of 73,010 semester hours of credit eligibility.

There were four common groupings in the number of tests students took during the testing year. The largest group was that of the 3,402 (32%) students who took one test, while 2,983 (28%) individuals took two tests. The third ranking group was that of the 2,544 (24%) students who took three tests during this time period; the remaining 1,806 (17%) students took four or more examinations.

The most common pattern of test-taking among students during 1986-1987 was a combination of two tests--the College Board Achievement Tests in English Composition (ECT) and Mathematics Level I/Level II: 2,670 (25%) students had scores from those two tests. In second rank were the 1,957 (18%) students who took the ECT, Mathematics Level I/Level II, and a foreign language test. There were 1,531 (14%) individuals who took tests other than the Achievement Tests in English Composition or in Mathematics Level I/Level II, or in a foreign language. The fourth ranked group was that with 1,339 (12%) persons who took a foreign language test. In fifth rank were the 960 (9%) students who took the Achievement Tests in English Composition, Mathematics Level I/Level II, and some test other than a foreign language. The remaining 2,278 (21%) individuals took examinations in other combinations of subject areas.

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Of the 10,735 individuals who participated in the credit-by-examination program during 1986-1987, 3,093 (29%) earned no credit eligibility. A total of 2,165 (20%) students earned between one and three semester hours of credit eligibility; 1,890 (18%) merited between four and six semester hours. From 7 to 18 semester hours of credit eligibility were earned by 2,711 (25%) of the participants. At the upper range of the scale were 685 (6%) persons who earned between 19 and 30 semester hours and 191 (2%) students who qualified for more than 30 semester hours. One particularly well-prepared student took 8 tests and accumulated 72 semester hours of credit eligibility.

U.T. Austin's program of credit by examination is comprised of five different categories of test administrations: U.T. Austin institutional administrations, U.T. Austin departmental administrations, national administrations of CLEP Subject Examinations, national administrations of College Board Achievement Tests, and national administrations of College Board Advanced Placement (AP) Examinations.

U.T. Austin institutional administrations have the greatest impact on the credit-by-examination program. The following three criteria define this testing category and distinguish it from both U.T. Austin departmental administrations and national testing administrations with which MEC is involved:

1. The tests were administered at U.T. Austin by MEC at scheduled times,
2. The tests were scored at U.T. Austin, and
3. Fees for the tests were paid to U.T. Austin.

The tests were of four types: (a) U.T. Austin Tests for Credit constructed locally by certain academic departments, (b) College Board Achievement Tests, (c) College Board CLEP Subject Examinations, and (d) College Board AP Examinations.

Administration of the tests took place in four test settings: testing periods preceding fall and spring semesters and the first summer term, the seven summer orientation sessions, group testing in October and April before registration for the spring and fall semesters, and individually administered

test sessions held at the request of the departments, or by MEC, for special reasons.

U.T. Austin departmental administrations are given on an individual basis. In any undergraduate course offered by the University, a registered student may take an examination in any course for which she/he is qualified, provided that the application is approved by the appropriate faculty members and administrators.

Application forms for the departmental examinations are available at the MEC. On the application, the student must state the reasons why she/he is qualified to take the test. Before the examination is given, the application must be approved by the chairman or program director of the department in which the course is offered and the dean of the college or school in which the student is enrolled.

These tests are not given on a regular schedule. When the application is submitted, the department administers the test at its convenience. The examination is graded by the department, which is expected to maintain the same level of achievement on the test as that required to pass the University course satisfactorily. To be eligible for credit, a student must make a satisfactory grade of at least a C.

When the results of the examination are known, the application form is returned to the Measurement and Evaluation Center. If credit has been earned, MEC reports the credit to the Registrar's office with a letter grade or with credit only, as directed by the student.

In national administrations of College Board tests, the examinations are available at designated test centers on common dates throughout the nation. After the national administration has been completed, test materials are returned to the Educational Testing Service (ETS). The tests are scored by ETS, and the scores are reported to the institutions designated by the students. U.T. Austin uses scores on specific tests from national administrations of three College Board testing programs: CLEP Subject Examinations, Achievement Tests, and Advanced Placement Examinations.

The CLEP examinations are usually administered in colleges and universities throughout the country. The Measurement and Evaluation Center serves as one of the national test centers for the College Board College-Level Examination Program in addition to offering certain CLEP Subject Examinations in institutional testing. CLEP examinations are available through national administrations 10 times a year, each month except December and February.

The College Board Advanced Placement (AP) Examinations are administered nationally once a year in May. National administrations of the College Board Achievement Tests are scheduled five times during the academic year. For both programs, high schools typically serve as test centers.

A variety of test fees are paid by candidates for credit by examination. For U.T. Austin students, the fees may vary depending on whether the tests were taken as part of a national program or in an institutional administration.

U.T. Austin Institutional Administrations

U.T. Austin Tests for Credit:

Required tests: \$25.00 per test.

Optional tests: \$40.00 per test.

College Board Achievement Tests: \$25.00 per test.

College Board College-Level Examination Program (CLEP) Subject Examinations: \$30.00 per test.

College Board AP Examinations: \$40.00 per test.

U.T. Austin Departmental Administrations

Required tests: \$25.00 per test.

Optional tests: \$40.00 per test.

National Administrations of College Board CLEP Subject Examinations

\$30.00 per test.

National Administrations of College Board Achievement Tests

Between October 1, 1985, and September 1, 1986, the fee was \$18.50 for one, two, or three Achievement tests taken on the same date.

National Administrations of College Board Advanced Placement Examinations

May, 1986, \$49.00 per examination.

Test results in 18 subject areas, each with a test volume of 20 or more scores, are reported alphabetically in the following section. For documentation of test results in subjects with fewer than 20 test scores, for the overall impact of credit by examination on the eight participating schools/colleges, and for comparisons of 1986-1987 test results with results from preceding years in U. T. Austin's credit-by-examination program, the reader is referred to the summary section of this report.

BIOLOGY

Biology 302, 303, and 304: Introductory Courses in the Biological Sciences

The College Board Advanced Placement (AP) Examination in Biology allows one hour and 30 minutes of working time on the objective portion and an additional 90 minutes on the essay portion. All scores of 5, 4, or 3 received from national administrations of this test are subject to review by a U. T. Austin faculty member of the Division of Biological Sciences. Both the objective score and the essay are taken into consideration in determining the credit a student receives. After the review, a student may be awarded credit for any combination of the three courses or possibly no credit for any course. Scores of 2 or 1 are not eligible for review or credit.

In on-campus administrations of the objective portion of the College Board AP Examination in Biology (designated as the Test for Credit in Biology), there is no review. The objective score alone is used to determine credit.

A student must have fewer than six semester hours--whether with passing or failing grades--in the life sciences (biology, biochemistry, botany, microbiology, zoology) to be eligible for credit.

Table 1 shows the numbers and percentages of test scores evaluated, tests generating eligibility, and grades awarded for each of the three biology courses: Biology 302 (Cellular and Molecular Biology), Biology 303 (Structure and Function of Organisms), and Biology 304 (Environmental and Population Biology). Because of the possibility of earning credit for one, two, or all three courses, the numbers shown under each individual course will not be equal to the numbers shown as generating eligibility.

The 52 scores from institutional administrations represent 20% of the 266 biology scores evaluated, while the 35 successful institutionally administered tests were 17% of the 202 biology tests meriting credit. Those 35 tests generated 234 semester hours of credit eligibility--16% of the total of 1,500 semester hours.

Conversely, the 214 scores received from national administrations of the Biology AP examination constituted 80% of the 266 scores evaluated. The

167 national scores generating eligibility constituted 83% of the total of eligible tests. Credit eligibility resulting from the national program totaled 1,266 (84%) semester hours.

Compared within each of the two programs, 67% of the institutional tests earned credit, while 78% of the national tests did so.

Table 2 presents a summary, by combination of courses, of credit earned by examination in biology during the 1986-1987 testing year. The numbers and percentages of test scores are displayed, as well as the number of semester hours of credit eligibility. A total of 266 scores were evaluated during the year; 202 (76%) of the tests accrued a total of 1,500 semester hours of credit eligibility. One hundred twenty-four (47%) tests received credit for all three of the introductory biology courses.

Table 1
Credit by Examination: AP Biology
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade								
					302			303			304		
	N	%	N	%	<u>A</u>	<u>B</u>	<u>C</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>A</u>	<u>B</u>	<u>C</u>
U.T.	52	20%	35	17%	4	13	12	1	2	15	5	12	14
AP													
5	46	17%	46	23%	22	17	7	20	19	5	24	13	8
4	61	23%	61	30%	17	29	10	8	25	20	13	26	17
3	71	27%	60	30%	0	9	25	0	5	33	1	19	30
2,1	36	14%	0	0%	--	--	--	--	--	--	--	--	--
Total	266	101%*	202	100%	43	68	54	29	51	73	43	70	69

*This figure differs from 100% only because of rounding error.

Table 2
Summary of Credit by Examination in Biology
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
302, 303, 304	124	47%	1,116	74%
303, 304	17	6%	102	7%
302, 304	27	10%	162	11%
302, 303	6	2%	36	2%
304	14	5%	42	3%
303	6	2%	18	1%
302	8	3%	24	2%
Total eligible	202	76%*	1,500	100%
Not eligible	64	24%	0	0%
Total	266	100%	1,500	100%

*Because of rounding error, this percentage (76%) differs by 1% from the percentage (75%) obtained by addition of the above seven percentages.

CHEMISTRY

Five different tests are used to award credit by examination in chemistry at U.T. Austin: The U.T. Austin Tests for Credit in Chemistry 304K, 301, 302, 305 and the College Board Advanced Placement (AP) Examination. This report contains tables documenting the results of each of the five tests (Tables 3 through 7). The numbers and percentages of test scores evaluated, letter grades awarded, and semester hours of credit eligibility are presented. In addition, Table 8 summarizes the results of the credit-by-examination program in chemistry during the 1986-1987 testing year.

During the time period covered by this report, 747 scores from the five chemistry tests were evaluated; 279 (37%) of these scores merited a total of 964 semester hours of credit eligibility. The Measurement and Evaluation Center administered 609 (82%) tests on the U.T. Austin campus. Nine (1%) tests were given by the Department of Chemistry, with the remaining 129 (17%) test scores reported to the MEC from national administrations of the Chemistry AP Examination.

The U.T. Austin Test for Credit in Chemistry 301 had the largest volume of test scores--486 (65%) of the 747 test scores evaluated. This test's population produced 122 (44%) of the 279 tests that generated credit eligibility; those 122 test scores yielded 366 (38%) of the 964 semester hours of credit eligibility. Twenty-five percent of the students who tried to earn credit by means of this test were successful in their attempts.

The Chemistry AP Examination was ranked second in terms of test volume with 129 (17%) of the 747 scores. This program had 43 (15%) of the 279 scores meriting credit with 258 semester hours of eligibility accruing--or 28% of the total of 964. Thirty-three percent of the 129 AP scores merited credit.

Chemistry 304K: Introduction to Chemistry

The U.T. Austin Test for Credit in Chemistry 304K, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Eligible to take this optional test are individuals who (a) have not taken the test previously and (b) have neither a passing nor a failing grade for Chemistry 304K.

Table 3
Credit by Examination in Chemistry 304K: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of <u>A</u>	28	41%	84
With grade of <u>B</u>	20	29%	60
With grade of <u>C</u>	17	25%	51
Total eligible	65	94%*	195
----- Not eligible	4	6%	0
Total	69	100%	195

*Because of rounding error, this percentage (94%) differs by 1% from the percentage (95%) obtained by addition of the above three percentages.

Chemistry 301: Introductory Chemistry

The U.T. Austin Test for Credit in Chemistry 301, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Individuals who have not taken the test previously and have neither a passing nor a failing grade for Chemistry 301 or its equivalent are eligible to take the examination.

The test is required of students who (a) plan to work toward a Bachelor of Science degree in chemistry, physics, or chemical engineering, (b) studied chemistry in high school, and (c) do not already have credit for Chemistry 301 or its equivalent. The College of Engineering encourages its students in other engineering majors to take the test if they have sufficient background. The test is recommended to students who plan to work for a Bachelor of Arts degree in physics; it is appropriate for other students with a strong background in high school chemistry.

Table 4

Credit by Examination in Chemistry 301: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of <u>A</u>	12	2%	36
With grade of <u>B</u>	47	10%	141
With grade of <u>C</u>	63	13%	189
Total eligible	122	25%	366
Not eligible	364	75%	0
Total	486	100%	366

Chemistry 302: Principles of Chemistry

The U.T. Austin Test for Credit in Chemistry 302, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Eligible to take this test are individuals who have not taken the test previously and have neither a passing nor a failing grade for Chemistry 302 or its equivalent.

This test is optional.

Table 5

Credit by Examination in Chemistry 302: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of <u>A</u>	13	39%	39
With grade of <u>B</u>	5	15%	15
With grade of <u>C</u>	7	21%	21
Total eligible	25	76%*	75
-----	-----	-----	-----
Not eligible	8	24%	0
Total	33	100%	75

*Because of rounding error, this percentage (76%) differs by 1% from the percentage (75%) obtained by addition of the above three percentages.

Chemistry 305: Topics in General Chemistry

The U. T. Austin Test for Credit in Chemistry 305, constructed locally by the U.T. Austin Department of Chemistry, allows one hour and 15 minutes of working time. The test is administered only on the U.T. Austin campus.

Individuals who have not taken the test previously and have neither a passing nor failing grade for Chemistry 305 or its equivalent are eligible to take this optional test.

Table 6

Credit by Examination in Chemistry 305: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of <u>A</u>	2	10%	6
With grade of <u>B</u>	9	43%	27
With grade of <u>C</u>	6	29%	18
Total eligible	17	81%*	51
----- Not eligible	4	19%	0
Total	21	100%	51

*Because of rounding error, this percentage (81%) differs by 1% from the percentage (82%) obtained by addition of the above three percentages.

Chemistry 301 and 302

The College Board Advanced Placement (AP) Examination in Chemistry allows 90 to 105 minutes of working time for the objective portion of the test with an additional 75 to 90 minutes allotted for the essay/free response portion of the examination.

For a College Board AP score of 5, the student is awarded the letter grade of A for both Chemistry 301 and Chemistry 302. An AP score of 4 merits Credit Only for both Chemistry 301 and 302; there is no letter grade attached. Chemistry AP examination scores of 3, 2, and 1 are not eligible for credit at U.T. Austin.

Table 7

Credit by Examination in Chemistry 301 and 302: AP Chemistry
1986-1987

AP Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					301		302		
	N	%	N	%	<u>A</u>	CR	<u>A</u>	CR	N
5	15	12%	15	35%	15	--	15	--	90
4	28	22%	28	65%	--	28	--	28	168
3,2,1	86	67%	0	0%	--	--	--	--	0
Total	129	101%*	43	100%	15	28	15	28	258

*This figure differs from 100% only because of rounding error.

Table 8
Summary of Credit by Examination in Chemistry
1986-1987

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.: CH 304K	69	9%	65	23%	195	20%
U.T.: CH 301	486	65%	122	44%	366	38%
U.T.: CH 302	33	4%	25	9%	75	8%
U.T.: CH 305	21	3%	17	6%	51	5%
AP: CH 301, 302	129	17%	43	15%	258	27%
Dep't: Miscellaneous	9	1%	7	3%	19	2%
Total	747	99%*	279	100%	964	100%

*This figure differs from 100% only because of rounding error.

CHINESE

Chinese 506, 507, 412K, 412L

The U.T. Austin Test for Credit in Chinese, constructed locally by faculty members of the Department of Oriental and African Languages and Literatures, is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion.

Individuals who have not taken this test previously are eligible to take this examination.

This test is required of all students who have knowledge of Chinese, who have no college credit in Chinese, and who intend to enroll in a U.T. Austin Chinese course.

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 162 Chinese tests. Of the 162 persons taking this examination, 158 (98%) were successful in their attempts to earn credit. A total of 2,675 semester hours of credit eligibility was generated by this test; 5 semester hours of credit eligibility were earned on one departmentally administered test.

Table 9
Credit by Examination in Chinese: U.T. Austin
1986-1987
(Number of Test Scores Evaluated: 162)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		<u>A</u>	<u>B</u>	<u>C</u>	
506	158	144	5	9	790
507	149	141	3	5	745
412K	144	138	3	3	576
412L	141	134	4	3	564
Total	--	--	--	--	2,675

Table 10
Credit by Examination in Chinese: U.T. Austin
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility *	
	N	%	N	%
506, 507, 412K, 412L	141	87%	2,538	95%
506, 507, 412K	3	2%	42	2%
506, 507	5	3%	50	2%
506	9	6%	45	2%
Total eligible	158	98%	2,675	100%*
----- Not eligible	4	2%	0	0%
Total	162	100%	2,675	100%

*Because of rounding error, this percentage (100%) differs by 1% from the percentage (101%) obtained by addition of the above four percentages.

Table 11
Summary of Credit by Examination in Chinese
1985-1986

Course	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.	162	99%	158	99%	2,675	100%
Dep't: Miscellaneous	1	1%	1	1%	5	<1%
Total	163	100%	159	100%	2,680	100%

COMPUTER SCIENCES

Computer Sciences 304P: PASCAL Programming

Two different tests are used to award credit by examination in computer sciences at U.T. Austin: The U.T. Austin Test for Credit in Computer Sciences 304P and The College Board Advanced Placement (AP) Examination in Computer Science. This report contains tables documenting the results of each of the tests (Tables 12 through 13). The numbers and percentages of test scores evaluated, letter grades awarded, and semester hours of credit eligibility are presented. In addition, Table 14 summarizes the results of the credit-by-examination program in computer sciences during the 1986-1987 testing year. A total of 98 test scores were evaluated during this time period with 74 (76%) eligible tests accruing 222 semester hours of credit eligibility.

The U.T. Austin Test for Credit in Computer Sciences 304P, constructed locally by faculty members of the U.T. Austin Department of Computer Sciences, allows two hours of working time. The test is administered only on the U.T. Austin campus.

Individuals who have a score of 460 on The College Board Achievement Test in Mathematics Level I or three hours of college credit in a college mathematics course, who do not have credit for Computer Sciences 328, who do not have a passing or a failing grade in Computer Sciences 304P, and who have not taken the test previously are eligible to take this optional examination.

The three-hour College Board Advanced Placement (AP) Examination in Computer Science consists of a multiple-choice section and a free-response section. A College Board rating of 5 on this examination establishes credit for Computer Sciences 304P with a grade of A. A rating of 4 is awarded a grade of B, while a rating of 3 merits a grade of C. Ratings of 2 and 1 are not eligible for credit. In addition, a 5 or 4 rating gives the student an opportunity to earn credit by means of a locally constructed test for Computer Sciences 315.

The College Board AP Examination had 73 test scores reported to U.T. Austin from national administrations. Of the 73 test scores from the AP program, 65 (89%) qualified for credit and produced 195 semester hours of credit eligibility, 88% of the total of 222 semester hours in this subject. This Special Report does not document how many of the 43 students who earned 5's and 4's on the AP examination opted to take the local test for credit in Computer Sciences 315.

Table 12

Credit by Examination in Computer Sciences 304P: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	N	%	
With grade of <u>A</u>	2	10%	6
With grade of <u>B</u>	0	0%	0
With grade of <u>C</u>	5	25%	15
Total eligible	7	35%	21
-----	-----	-----	-----
Not eligible	13	65%	0
Total	20	100%	21

Table 13
Credit by Examination in Computer Sciences 304P:
AP Examination in Computer Science
1986-1987

AP Score	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
5	23	32%	23	35%	69	35%
4	20	27%	20	31%	60	31%
3	22	30%	22	34%	66	34%
2,1	8	11%	0	0%	0	0%
Total	73	100%	65	100%	195	100%

Table 14
Summary of Credit by Examination in Computer Sciences
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T.	20	20%	7	9%	21	9%
AP	73	74%	65	88%	195	88%
Dep't: Miscellaneous	5	5%	2	3%	6	3%
Total	98	99%*	74	100%	222	100%

*This figure differs from 100% only because of rounding error.

ECONOMICS

Three College Board College-Level Examination Program (CLEP) Subject Examinations are used to award credit by examination in three economics courses: Introductory Macroeconomics (Economics 302), Introductory Microeconomics (Economics 303), and Introductory Micro- and Macroeconomics (Economics 302 and 303). One hour and 30 minutes of working time are allowed for each test.

Individuals who have not taken these optional tests within the past six months and who have neither a passing nor a failing grade in the course(s) for which they are attempting to earn credit are eligible to take these tests.

This Special Report documents the results of the credit-by-examination program in this subject during the 1986-1987 testing year (see Table 18). During this time period, 137 test scores were evaluated. Of this total, 119 (87%) test scores qualified for 498 semester hours of credit eligibility.

Twenty-four (80%) of the 30 test scores reported for the Macroeconomics examination earned 72 semester hours of credit eligibility in Economics 302. For the Microeconomics test, 55 test scores were reported, 48 (87%) of which were awarded 144 semester hours of credit eligibility in Economics 303. For the Micro- and Macroeconomics examination, 52 scores were evaluated, 47 (90%) of which merited 282 semester hours of credit eligibility.

The Measurement and Evaluation Center administered 136 (99%) CLEP economics tests on the U.T. Austin campus during the 1986-1987 testing year. One Introductory Macroeconomics score was reported from national CLEP administrations.

Tables 15-17 present the numbers and percentages of test scores evaluated, letter grades awarded, and the semester hours of credit eligibility for the three CLEP examinations. Table 18 summarizes the results of all credit by examination in economics during the time period.

Economics 302: Introduction to Macroeconomics

Table 15

Credit by Examination in Economics 302: CLEP Introductory Macroeconomics
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	5	17%	15
With grade of <u>B</u>	12	40%	36
With grade of <u>C</u>	7	23%	21
Total eligible	24	80%	72
-----	-----	-----	-----
Not eligible	6	20%	0
Total	30	100%	72

Note. Score ranges: 63-80 = A, 55-62 = B, 48-54 = C, 20-47 = no credit.

Economics 303: Introduction to Microeconomics

Table 16

Credit by Examination in Economics 303: CLEP Introductory Microeconomics
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	16	29%	48
With grade of <u>B</u>	18	33%	54
With grade of <u>C</u>	14	25%	42
Total eligible	48	87%	144
-----	-----	-----	-----
Not eligible	7	13%	0
Total	55	100%	144

Note. Score ranges: 61-80 = A, 54-60 = B, 47-53 = C, 20-46 = no credit.

Economics 302 and 303

Table 17
Credit by Examination in Economics 302 and 303:
CLEP Introductory Micro- and Macroeconomics
. 1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	23	44%	138
With grade of <u>B</u>	11	21%	66
With grade of <u>C</u>	13	25%	78
Total eligible	47	90%	282
-----	-----	-----	-----
Not eligible	5	10%	0
Total	52	100%	282

Note. Score ranges: 61-80 = A, 54-60 = B, 47-53 = C, 20-46 = no credit.

Table 18
Summary of Credit by Examination in Economics
1986-1987

Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Hours of Credit Eligibility	
	N	%	N	%	N	%
302	30	22%	24	20%	72	14%
303	55	40%	48	40%	144	29%
302 and 303	52	38%	47	39%	282	57%
Total	137	100%	119	99%*	498	100%

*This figure differs from 100% only because of rounding error.

ELECTRICAL ENGINEERING

Electrical Engineering 312: Electrical Engineering Computation I

The College Board's College-Level Examination Program (CLEP) Subject Examination in Elementary Computer Programming-Fortran IV allows 90 minutes of working time. In addition, one hour of working time is allotted for a U.T. Austin test (PASCAL) that supplements the CLEP examination.

Individuals who have not taken the tests within the past six months and have neither a passing nor failing grade in Electrical Engineering 312 or its equivalent are eligible to take this optional test.

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 19 examinations for Electrical Engineering 312. The results of those tests are shown in Table 19. A faculty member of the Department of Electrical and Computer Engineering grades the U.T. Austin portion of the test.

Table 19

Summary of Credit by Examination in Electrical Engineering 312:
CLEP Elementary Computer Programming--Fortran IV
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	11	58%	33
With grade of <u>B</u>	5	26%	15
With grade of <u>C</u>	1	5%	3
Total eligible	17	89%	51
-----	-----	-----	-----
Not eligible	2	11%	0
Total	19	100%	51

Note. To earn credit in Electrical Engineering 312, a student must make both a minimum score of 51 on the CLEP examination and a grade of C or higher on the U.T. Austin PASCAL test.

ENGLISH

Four tests are used to grant credit by examination in English at U.T. Austin. The College Board Achievement Test in English Composition (ECT) is used for English 306. A second English test used at the freshman level is the College Board Advanced Placement (AP) Examination in Language and Composition, for which credit in English 306 and 308 can be earned by examination. At the sophomore level, two other College Board examinations are used: the College-Level Examination Program (CLEP) Subject Examination in Analysis and Interpretation of Literature for English 316K and the AP Examination in Literature and Composition for English 316K and 314L.

Tables 20-23 present results of each examination; Table 24 summarizes the results of credit by examination from all four English tests during 1986-1987.

During this testing year, 9,246 English test scores were evaluated. There were 3,893 (42%) tests with scores qualifying students for 12,936 semester hours of credit eligibility. The ECT produced the largest test volume: 7,783 (84%) test scores evaluated, 2,912 (75%) tests generating eligibility, and 8,736 (68%) semester hours of credit eligibility. The AP Examination in Literature and Composition ranked second in this comparison with 922 (10%) tests evaluated and 727 (19%) eligible test scores producing 3,045 (24%) semester hours of credit eligibility. In those three comparisons, results of the freshman level tests far outweighed results from the sophomore level tests. This difference is largely due to the fact that a score on the ECT is required prior to enrollment in English 306, a first-semester freshman English course. The 8,211 first year English tests accounted for 89% of the test scores evaluated. Eighty-one percent (3,159) of the tests generating eligibility were at the freshman level; they yielded 9,870 (76%) semester hours of credit eligibility.

The Measurement and Evaluation Center administered 5,143 (56%) English tests during this time period--5,030 ECT (English 306) and 113 CLEP Analysis and Interpretation of Literature (English 316K). The remaining 4,103 (44%) test scores were reported from national administrations of the ECT and the two College Board AP Examinations in English.

English 306: Rhetoric and Composition

The College Board Achievement Test in English Composition (ECT) allows one hour of working time. A score on this test is required before enrollment in English 306, the basic first-semester college English course.

The ECT is available in both institutional and national administrations. The Measurement and Evaluation Center administered 5,030 (65%) of these tests on the U.T. Austin campus during the 1986-1987 testing year. This segment of the ECT test population achieved scores qualifying for credit on 1,838 tests, which produced 5,514 (63%) semester hours of credit eligibility. The remaining 2,753 (35%) tests were given in national administrations, with 1,074 tests generating 3,222 (37%) semester hours of credit eligibility.

Table 20 presents the 1986-1987 credit by examination results for both national and institutional administrations of the ECT. A total of 7,783 scores were evaluated during this time period; 2,912 (37%) of the tests merited 8,736 semester hours of credit eligibility.

Table 20
Credit by Examination in English 306: Achievement Test
in English Composition
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	1,373	18%	4,119
With grade of <u>B</u>	1,539	20%	4,617
Total eligible	2,912	37%*	8,736
-----	-----	-----	-----
Not eligible	4,871	63%	0
Total	7,783	100%	8,736

*Because of rounding error, this percentage (37%) differs by 1% from the total (38%) derived by addition of the above two percentages.

Note. Score ranges: 610-800 = A, 550-609 = B, 200-549 = no credit.

English 306; English 308 (Rhetoric, Logic, and Expository Writing)

The College Board Advanced Placement (AP) Examination in Language and Composition is a three-hour test divided into two portions; typically, the examination allots an hour and 15 minutes for the multiple-choice portion and an hour and 45 minutes for the essay portion. A College Board score rating of 5 or 4 on this examination creates credit eligibility for both English 306 and English 308 with a letter grade of A. A test with the College Board rating of 3 is reviewed by the Department of English for possible credit in English 306 and/or English 308 with a letter grade of A or B for one or both courses. Scores of 2 and 1 are not eligible for credit.

Table 21 documents the results of the 428 scores on the AP Language and Composition examination during 1986-1987. A total of 247 (58%) of the tests merited 1,134 semester hours of credit eligibility in freshman English.

Table 21

Credit by Examination in English 306 and 308
AP English in Language and Composition
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					306		308		
	N	%	N	%	<u>A</u>	<u>B</u>	<u>A</u>	<u>B</u>	N
5,4	123	29%	123	50%	123	--	123	--	738
3	189	44%	125	51%	26	99	0	7	396
2,1	116	27%	0	0%	--	--	--	--	0
Total	428	100%	247	101%*	149	99	123	7	1,134

*This figure differs from 100% only because of rounding error.

English 316K: Masterworks of Literature

The College Board CLEP Subject Examination in Analysis and Interpretation of Literature allows one hour and 30 minutes of working time on the objective portion. The essay portion allots an additional hour and 30 minutes of working time.

The Department of English requires both the objective portion and the essay portion of the test. Satisfactory performance is required on both portions of the test. The minimum satisfactory objective score is 51. The essays, which are graded by Department of English faculty members, must merit a grade of at least C. The test is optional.

Table 22

Credit by Examination in English 316K
CLEP Analysis and Interpretation of Literature
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	0	0%	0
With grade of <u>B</u>	7	6%	21
Total eligible	7	6%	21
-----	-----	-----	-----
Not eligible	106	94%	0
Total	113	100%	21

English 316K and 314L: Masterworks of Literature and Introduction to Literature II

The College Board Advanced Placement (AP) Examination in Literature and Composition is a three-hour test divided into two portions; typically, the examination allows one hour and 15 minutes for the multiple-choice portion and one hour and 45 minutes for the essay portion. A College Board rating of 5 awards a student credit in English 316K with an A and in English 314L with an A. With a College Board rating of 4, a student may claim credit in English 316K with a B and in English 314L with an A. A rating of 3 merits credit (only) in English 316K. Ratings of 2 and 1 do not earn credit by examination.

Table 23 displays the results of the 922 scores for the English AP Examination in Literature and Composition evaluated at U.T. Austin during 1986-1987. Seventy-nine percent (727 tests) of the total were eligible for credit. A total of 3,045 semester hours of credit eligibility resulted from this national testing program.

Table 23
Credit by Examination in English 316K and 314L
AP English in Language and Composition
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course(s) and Grade				Semester Hours of Credit Eligibility
					316K			314L	
	N	%	N	%	<u>A</u>	<u>B</u>	Credit Only	<u>A</u>	N
5	115	12%	115	16%	115	--	—	115	690
4	173	19%	173	24%	--	173	—	173	1,038
3	439	48%	439	60%	--	--	439	--	1,317
2,1	195	21%	0	0%	--	--	—	--	0
Total	922	100%	727	100%	115	173	439	288	3,045

Table 24

Summary of Credit by Examination in English
1986-1987

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
ECT: E 306	7,783	84%	2,912	75%	8,736	68%
AP: E 306, 308	428	5%	247	6%	1,134	9%
-----	-----	-----	-----	-----	-----	-----
Subtotal: 1st year	8,211	89%	3,159	81%	9,870	76%*
-----	-----	-----	-----	-----	-----	-----
CLEP: E 316K	113	1%	7	<1%	21	<1%
AP: E 316K, 314L	922	10%	727	19%	3,045	24%
-----	-----	-----	-----	-----	-----	-----
Subtotal: 2nd year	1,035	11%	734	19%	3,066	24%
-----	-----	-----	-----	-----	-----	-----
Total	9,246	100%	3,893	100%	12,936	100%

*Because of rounding error, this percentage (76%) differs by 1% from the total (77%) derived by addition of the above two percentages.

FRENCH

Three College Board examinations are used to award credit by examination in French at U.T. Austin: the Achievement Test in French Listening-Reading and two Advanced Placement (AP) Examinations in French--French Language and French Literature.

The more commonly used test, the College Board Achievement Test in French Listening-Reading, is available only on the U.T. Austin campus. This test is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. This test is required of all students who have knowledge of French, who have no college credit in French, and who intend to enroll in a U.T. Austin French course. It is possible for students to earn credit for the first four courses in the major 4-skill sequence: French 506, First-Year French I; French 507, First-Year French II; French 312K, Second-Year French I: Four Skills; French 312L, Second-Year French II: Four Skills--Literature.

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 937 French Achievement Listening-Reading tests. Table 25 presents the results, by course, of those tests. The number of tests generating credit, the letter grades, and the number of semester hours generated for a specific course are recorded. Data on the same 937 tests are shown in a different format in Table 26; results are arranged by the combination of courses for which the more advanced students earned credit eligibility.

The 645 (69%) test scores that qualified for credit produced 6,219 semester hours of eligibility. The largest amount of credit eligibility was generated by scores on the 162 (17%) tests that merited the maximum amount of credit (all four courses) available from this test. This well-prepared group earned 2,592 semester hours of credit eligibility, 42% of the total of 6,219 semester hours. In the second-ranked group on this test were the 282 (30%) test scores that earned credit for French 506 only with a total of 1,410 (23%) semester hours.

Table 25
Credit by Examination: Achievement Test in French Listening-Reading
1986-1987
(Number of Test Scores Evaluated: 937)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		<u>A</u>	<u>B</u>	<u>C</u>	
506	645	409	120	116	3,225
507	363	175	81	107	1,815
312K	231	150	40	41	693
312L	162	104	22	36	486
Total	--	--	--	--	6,219

Table 26
Credit by Examination: Achievement Test in French Listening-Reading
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	162	17%	2,592	42%
506, 507, 312K	69	7%	897	14%
506, 507	132	14%	1,520	21%
506	282	30%	1,410	23%
Total eligible	645	69%*	6,219	100%
Not eligible	292	31%	0	0%
Total	937	100%	6,219	100%

*Because of rounding error, this percentage (69%) differs by 1% from the total (68%) derived by addition of the above four percentages.

Table 27

Placement System for Scores Received After May 15, 1976, on the
College Board Achievement Test in French Listening-Reading--
Credit by Examination in French

Composite Score	Credit and Grade				Register for
	506	507	312K	312L	
720-800	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	Upper Division Course
680-719	<u>A</u>	<u>A</u>	<u>A</u>	<u>B</u>	Upper Division Course
660-679	<u>A</u>	<u>A</u>	<u>B</u>	<u>B</u>	Upper Division Course
630-659	<u>A</u>	<u>A</u>	<u>B</u>	<u>C</u>	Upper Division Course
610-629	<u>A</u>	<u>B</u>	<u>B</u>	<u>C</u>	Upper Division Course
590-609	<u>A</u>	<u>B</u>	<u>C</u>	<u>C</u>	Upper Division Course
560-589	<u>A</u>	<u>B</u>	<u>C</u>		FR 312L, 312M, 312N, or 310L
540-559	<u>A</u>	<u>C</u>	<u>C</u>		FR 312L, 312M, 312N, or 310L
530-539	<u>A</u>	<u>C</u>			FR 312K or 310K
490-529	<u>B</u>	<u>C</u>			FR 312K or 310K
470-489	<u>B</u>				FR 508K
410-469	<u>C</u>				FR 508K
200-409	No Credit				FR 506 or 508K

The College Board AP Examination in French Language is approximately two hours and 30 minutes long. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing and speaking skills. A College Board rating (score) of 5 on this examination qualifies a student for credit in the first four courses in the major sequence (French 506, 507, 312K, 312L), French 324K, and French 324M--all six courses with the letter grade of A. The student who earns a rating of 4 becomes eligible for the first four courses and French 324K with a grade of A in each course. A rating of 3 qualifies the student for credit in the first four courses with A's and credit in French 324K with a B. The lower rating of 2 merits credit for only French 506 and 507 with A's for each course. A rating of 1 is not eligible for credit in French.

The College Board AP Examination in French Literature is approximately three hours long. The multiple-choice section is between 70 and 90 minutes in length; the free-response section is between 90 and 105 minutes long. A College Board rating of 5 on this examination qualifies a student for credit in the first four courses in the major sequence (French 506, 507, 312K, 312L), French 324K, and French 321L--all six courses with the letter grade of A. The student who earned a rating of 4 would be eligible for the first four courses and French 321L, once again with the grade of A for each course. A rating of 3 qualifies the student for credit in the first four courses with A's and in 321L with a B. The lower rating of 2 merits credit for only French 506 and 507 with A's for each course. A rating of 1 is not eligible for credit in French.

The results of the two College Board AP French examinations are presented in Table 28. There were 36 test scores evaluated for the Language test with 32 (89%) test scores qualifying for 578 semester hours of credit eligibility. The 15 test scores received from the Literature examination generated 257 semester hours of eligibility.

Table 28

Credit by Examination: AP in French Language or Literature
1986-1987

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses					Semester Hours of Credit Eligibility
			506, 507	312K, 312L	324K	324M	321L	
Lan- guage								
5	5	5	5	5	5	5	--	110
4	9	9	9	9	9	--	--	171
3	13	13	13	13	13	--	--	247
2	5	5	5	--	--	--	--	50
1	4	0	--	--	--	--	--	0
Sub- total	36	32	32	27	27	5	--	578
Liter- ature								
5	3	3	3	3	3	--	3	66
4	3	3	3	3	--	--	3	57
3	6	6	6	6	--	--	6	114
2	2	2	2	--	--	--	--	20
1	1	0	--	--	--	--	--	0
Sub- total	15	14	14	12	3	--	12	257
Total	51	46	46	39	30	5	12	835

The 1986-1987 program of credit by examination in French is documented in Table 29, which shows the numbers and percentages of test scores evaluated, tests generating eligibility, and semester hours of credit eligibility. Scores on the College Board Achievement Test in French Listening-Reading, administered by the Measurement and Evaluation Center, accounted for 94% of the volume in the testing program in French. This test had 645 (93%) test scores warranting credit; they produced 6,219 (88%) semester hours of credit eligibility. The 51 (5%) Advanced Placement Examinations included 46 with scores qualifying students for credit, while all five departmental tests yielded five (1%) successful performances and 27 hours of credit eligibility. Overall, 7,081 semester hours of credit eligibility were generated by 696 (70%) of the 993 tests.

Table 29
Summary of Credit by Examination in French
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	937	94%	645	93%	6,219	88%
AP	51	5%	46	7%	835	12%
Dep't: Miscellaneous	5	1%	5	1%	27	<1%
Total	993	100%	696	101%*	7,081	100%

*This figure differs from 100% only because of rounding error.

GERMAN

Three College Board examinations are used to award credit by examination in German at U.T. Austin: the Achievement Test in German Listening-Reading, with additional questions constructed by the Department of Germanic Languages, and two Advanced Placement (AP) Examinations in German—German Language and German Literature. In addition, three scores from locally constructed tests in a variety of German courses were evaluated by the Department of Germanic Languages during 1986-1987.

The more commonly used test, the College Board Achievement Test in German Listening-Reading with the U.T. Austin items, is available only on the U.T. Austin campus. The College Board test is divided into two sections --a 20-minute taped listening portion and a 40-minute reading portion; an additional 30 minutes are allowed for the U.T. Austin items. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. It is required of all students who have knowledge of German, who have no college credit in German, and who intend to enroll in a U.T. Austin German course. It is possible for students to earn credit for the first four German courses: German 506, First-Year German I-R (emphasis on reading) and I-S (emphasis on speaking/vocabulary/ grammar); German 507, First-Year German II; German 312K, Second-Year German I, and German 312L: Second-Year German II (each course with readings in the humanities and social sciences).

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 403 Achievement tests in German Listening-Reading. Table 30 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 403 tests are shown in a different format in Table 31; the results are arranged by combination of courses for which credit was generated.

The 189 (46%) tests that produced qualifying scores yielded 1,620 semester hours of credit eligibility. The largest segment of this eligible test volume was that of the 93 (23%) test scores that earned credit for German 506 only with a total of 465 (29%) semester hours.

Table 30
Credit by Examination: Achievement Test in German Listening-Reading
1986-1987
(Number of Test Scores Evaluated: 403)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		<u>A</u>	<u>B</u>	<u>C</u>	
506	189	138	50	1	945
507	96	62	33	1	480
312K	39	34	5	0	117
312L	26	24	2	0	78
Total	--	--	--	--	1,620

Table 31
Credit by Examination: Achievement Test in German Listening-Reading
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	26	6%	416	26%
506, 507, 312K	13	3%	169	10%
506, 507	57	14%	570	35%
506	93	23%	465	29%
Total eligible	189	47%*	1,620	100%
Not eligible	214	53%	0	0%
Total	403	100%	1,620	100%

*Because of rounding error, this percentage (47%) differs by 1% from the percentage (46%) obtained by addition of the above four percentages.

The College Board AP Examination in German Language is 3 hours in length. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing skills. A College Board rating of 5 on this examination qualifies a student for credit in the first four German courses (506, 507, 312K, 312L), German 328, and 356--all six courses with the letter grade of A. The student who earns a rating of 4 becomes eligible for credit in the first four courses and German 328, once again with the grade of A for each course. Scores of 3, 2, or 1 do not qualify the student for credit in German. During the 1986-1987 testing year, three German Language AP scores of 5 were reported to U.T. Austin. Six scores of 4 were reported, and seven scores with lower ratings (3, 2, 1) were reported. Based on the nine eligible scores, 180 semester hours of credit eligibility were awarded.

The College Board AP Examination in German Literature is no longer available in national administrations. The Measurement and Evaluation Center continues to record any scores received from earlier administrations of that examination, and credit is awarded based on the policies in effect at the time the test was available. No scores from the German Literature AP Examination were reported during this year.

Results of the total 1986-1987 credit-by-examination program in German are documented in Table 32, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in German Listening-Reading, with the additional U.T. Austin items, administered by the Measurement and Evaluation Center, accounted for 95% of the test volume in German. On this test, 189 scores warranted credit, or 94% of the total of 201 eligible test scores; these 189 scores produced 1,620 semester hours of credit eligibility--89% of the total of 1,818 semester hours of credit eligibility in German.

Table 32

Summary of Credit by Examination in German
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	403	95%	189	94%	1,620	89%
AP	16	4%	9	4%	180	10%
Dep't: Miscellaneous	3	1%	3	1%	18	1%
Total	422	100%	201	99%*	1,818	100%

*This figure differs from 100% only because of rounding error.

GOVERNMENT

Government 310L: American Government

Two tests are used by the U.T. Austin Department of Government for credit by examination in Government 310L. The College Board College-Level Examination Program (CLEP) Subject Examination in American Government allows one hour and 30 minutes of working time. The U.T. Austin Test for Credit in Texas Government, constructed locally by the department, is an untimed test with 20 questions; it is given only on the U.T. Austin campus. A student must take both tests before the composite score can be evaluated.

Eligible to take these optional examinations are individuals who have neither a passing nor a failing grade in Government 310L or its equivalent and have not taken the tests within the past six months.

During the 1986-1987 testing year, 731 American Government scores were received for evaluation. The Measurement and Evaluation Center administered 664 (91%) of the CLEP American Government examinations on the U.T. Austin campus; the remaining 67 (9%) scores were reported to the MEC from national administrations of CLEP examinations. There were 608 (83%) test scores that qualified students for 1,824 semester hours of credit eligibility.

In addition to the 731 scores evaluated on the CLEP and U.T. Austin tests for credit in Government 310L, two students earned credit by examination with a grade of A in Government 312L by means of a successful performance on a departmental examination.

Table 33
Credit by Examination in Government
CLEP American Government and U.T. Austin Items
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	301	41%	903
With grade of <u>B</u>	165	23%	495
With grade of <u>C</u>	142	19%	426
Total eligible	608	83%	1,824
-----	-----	-----	-----
Not eligible	123	17%	0
Total	731	100%	1,824

Table 34
Summary of Credit by Examination in Government
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
CLEP	731	100%	608	100%	1,824	100%
Dep't: Miscellaneous	2	<1%	2	<1%	6	<1%
Total	733	100%	610	100%	1,830	100%

HISTORY

Four different examinations are used at U.T. Austin to award credit by examination in history: the College Board Advanced Placement (AP) Examinations in European History and in American History and the U.T. Austin Tests for Credit in History 315K and in History 315L.

History 309K and 309L: Western Civilization in Medieval Times and Western Civilization in Modern Times

The College Board AP Examination in European History generally allows three hours of working time with one hour and 15 minutes for the multiple-choice section and one hour and 45 minutes for the free-response portion. For a College Board score of 5, a student is awarded credit for History 309K and 309L with the letter grade of A for each course. A score of 4 merits credit for both courses with the grade of B. A score of 3 is reviewed by the Department of History for possible credit for one or both courses. Scores of 2 or 1 are not eligible for credit.

Table 35 presents the results of scores from the College Board AP Examinations in European History that were evaluated during 1986-1987. The numbers and percentages of test scores evaluated and tests generating credit eligibility are shown, as well as the grades earned for both courses and the numbers of semester hours of credit eligibility generated. During this time period, 130 scores were evaluated; 56 (43%) tests produced a total of 303 semester hours of credit eligibility.

History 315K and 315L: The United States, 1492-1865 and The United States Since 1865

The College Board AP Examination in American History generally allows three hours of working time with one hour and 15 minutes for the multiple-choice section and one hour and 45 minutes for the free-response portion. For a College Board score of 5, a student is awarded credit for History 315K and 315L with the letter grade of A for each course. A score of 4 merits

Table 35

Credit by Examination in History 309K and 309L: AP European History
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade						Semester Hours of Credit Eligibility
					309K			309L			
	N	%	N	%	A	B	C	A	B	C	N
5	19	15%	19	34%	19	--	--	19	--	--	114
4	26	20%	26	46%	--	26	--	--	26	--	156
3	59	45%	11	20%	0	0	2	0	0	9	33
2,1	26	20%	0	0%	--	--	--	--	--	--	0
Total	130	100%	56	100%	19	26	2	19	26	9	303

credit for both courses with the grade of B. A score of 3 is reviewed by the Department of History for possible credit for one or both courses. Scores of 2 or 1 are not eligible for credit.

Table 36 presents the results of scores from the College Board AP Examination in American History that were evaluated during 1986-1987. The numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as the grades earned for both courses and the number of semester hours of credit eligibility generated. During this time period, 466 scores were evaluated; 267 (57%) test scores produced a total of 1,521 semester hours of credit eligibility.

Table 36

Credit by Examination in History 315K and 315L: AP American History
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade						Semester Hours of Credit Eligibility
					315K			315L			
	N	%	N	%	A	B	C	A	B	C	N
5	57	12%	57	21%	57	—	—	57	—	—	342
4	179	38%	179	67%	—	179	—	—	179	—	1,074
3	129	28%	31	12%	0	0	16	0	0	19	105
2,1	101	22%	0	0%	—	—	—	—	—	—	0
Total	466	100%	267	100%	57	179	16	57	179	19	1,521

The U.T. Austin Tests for Credit in History 315K and 315L, constructed locally by the Department of History, are essay tests, each with three hours of working time allowed. These tests are administered only on the U.T. Austin campus. Eligible to take these optional tests are previously or currently enrolled students who have neither a passing nor a failing grade in the course(s) for which they are attempting to earn credit.

Tables 37 and 38 show the results of these on-campus administrations during 1986-1987. The numbers and percentages of test scores evaluated, letter grades, and semester hours of credit eligibility are presented.

Table 37
Credit by Examination in History 315K: U.T. Austin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	0	0%	0
With grade of <u>B</u>	2	18%	6
With grade of <u>C</u>	2	18%	6
Total eligible	4	36%	12
-----	-----	-----	-----
Not eligible	7	64%	0
Total	11	100%	12

Table 38
Credit by Examination in History 315L: U.T. Auscin
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	0	0%	0
With grade of <u>B</u>	3	17%	9
With grade of <u>C</u>	1	6%	3
Total eligible	4	22%*	12
-----	-----	-----	-----
Not eligible	14	78%	0
Total	18	100%	12

*Because of rounding error, this percentage (22%) differs by 1% from the total (23%) obtained by addition of the above three percentages.

Table 39 presents the results of the credit-by-examination program in history for the 1986-1987 testing year. Numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility are shown. The College Board AP Examination in American History provided the largest amount of test volume in history; 466 test scores were reported to U.T. Austin from national administrations of this examination. This test comprised 75% of the total of 625 history scores evaluated during the year under consideration. Of this group of American History AP scores, 267 qualified for credit--81% of the 331 eligible scores. In turn, 1,521 (82%) semester hours of credit eligibility were generated by this particular test. Of the 625 history test scores evaluated, 331 (53%) yielded 1,848 semester hours of credit eligibility.

Table 39
Summary of Credit by Examination in History
1986-1987

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
AP: HIS 309K, 309L	130	21%	56	17%	303	16%
AP: HIS 315K, 315L	466	75%	267	81%	1,521	82%
U.T.: HIS 315K, 315L	29	5%	8	2%	24	1%
Total	625	101%*	331	100%	1,848	99%*

*This figure differs from 100% only because of rounding error.

LATIN

Three tests are used to award credit by examination in Latin at U.T. Austin: the U.T. Austin Test for Credit in Latin and The College Board Advanced Placement (AP) Examinations in Latin (Vergil and Catullus-Horace).

Titles of the six Latin courses in which credit can be earned are as follows: Latin 506: First-Year Latin I; Latin 507: First-Year Latin II; Latin 311: Second-Year Latin I--Selected Roman Authors; Latin 312K: Second-Year Latin II--Vergil's Aeneid; Latin 312M: Second-Year Latin II--Prose; Latin 316: Second-Year Latin II--Lyric Poetry, Classical and Medieval.

On the U.T. Austin Test for Credit in Latin, a student may attempt to earn credit for any/all of the six courses listed above. A suggested time of three hours is given for this essay test; additional time may be used if necessary. Table 40 displays the results of this test during the 1986-1987 testing year. The numbers and percentages of test scores evaluated and semester hours of credit eligibility generated are shown. The table does not show all of the possible combinations of courses because no student earned credit eligibility in all of the courses; the table shows the credit eligibility actually earned.

Of the 31 Latin tests administered by the Measurement and Evaluation Center, 23 (74%) merited credit. A total of 182 semester hours of credit eligibility was generated by means of this locally constructed examination.

The annual AP Latin examinations have three parts. There is a single multiple-choice section that serves for either Latin test and two free-response sections--one for the test on Vergil and one for the test on Catullus-Horace.

Credit in four Latin courses can be awarded for satisfactory scores on the AP Latin Vergil examination: Latin 506, 507, 311, and 312K. A College Board score of 5 on this test qualifies a student for credit for all four courses with the grade of A. A score of 4 allows a student credit eligibility in all four courses with the grade of B. If a student earns a score of 3, the credit in the four courses merits the grade of C. College Board scores of 2 and 1 are not awarded any credit.

Table 40
Credit by Examination in Latin: U.T. Austin
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 311, 312K, 312M	1	3%	19	10%
506, 507, 311, 312K	1	3%	16	9%
506, 507, 311	4	13%	52	29%
506, 507	2	6%	20	11%
506	15	48%	75	41%
Total eligible	23	74%*	182	100%
Not eligible	8	26%	0	0%
Total	31	100%	182	100%

* Because of rounding error, this percentage (74%) differs by 1% from the percentage (73%) obtained by addition of the above five percentages.

A satisfactory score on the AP Latin Catullus-Horace examination merits credit in four Latin courses: Latin 506, 507, 311, and 316. The grade of A is awarded in all four courses with a College Board score of 5. A score of 4 qualifies a student for a grade of B in each of the courses. The student who earns a score of 3 is granted credit in the four courses with the grade of C. College Board scores of 2 and 1 are not awarded credit eligibility.

Table 41 displays the results of the 1986-1987 evaluation of the AP Latin examinations. The number of scores received, test scores generating eligibility, courses in which credit was earned, and number of semester hours of credit eligibility are documented.

Table 41

Credit by Examination: AP in Latin Vergil or Catullus-Horace
1986-1987

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses			Semester Hours of Credit Eligibility
			506, 507, 311	312K	316	
Vergil						
5	1	1	1	1	--	16
4	1	1	1	1	--	16
3	2	2	2	2	--	32
2,1	3	0	0	0	--	0

Subtotal	7	4	4	4	-	64

Catullus- Horace						
5	0	0	0	--	0	0
4	1	1	1	--	1	16
3	1	1	1	--	1	16
2,1	1	0	0	--	0	0

Subtotal	3	2	2	--	2	32

Total	10	6	6	4	2	96

Seven scores for the Latin-Vergil test were received during this testing year. Four tests (57%) earned a total of 64 semester hours of credit eligibility. The other three scores from this test did not merit credit.

From the Catullus-Horace examination, three scores were received. Two (67%) of these scores were awarded credit; one score was not high enough to merit credit eligibility.

Overall, 6 (60%) of the 10 AP Latin test scores evaluated generated 96 semester hours of credit eligibility.

Results of the total 1986-1987 credit-by-examination program in Latin are documented in Table 42, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The U.T. Austin Test for Credit in Latin, administered by the Measurement and Evaluation Center, accounted for 76% of the test volume in Latin. On this test, 23 scores warranted credit, 79% of the total of 29 eligible test scores. The successful U.T. Austin tests produced 182 semester hours of credit eligibility in Latin--61% of the total of 278 semester hours generated. Overall, 29 (71%) of the 41 Latin test scores evaluated generated 278 semester hours of credit eligibility.

Table 42

Summary of Credit by Examination in Latin
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
U.T. Austin	31	76%	23	79%	182	61%
AP	10	24%	6	21%	96	39%
Total	41	100%	29	100%	278	100%

MATHEMATICS

Mathematics 301: College Algebra

Two tests are used by the U.T. Austin Department of Mathematics in its program of credit by examination in Mathematics 301. The first is the College Board College-Level Examination Program (CLEP) Subject Examination in College Algebra, which allows one hour and 30 minutes of working time. An additional hour of working time is allowed for the second test of 10 items prepared locally by the department.

Individuals who have not taken the tests within the past six months and have neither a passing nor a failing grade (nor a grade symbol) for Mathematics 301 are eligible to take these optional tests.

The results of credit by examination in Mathematics 301 for the 1986-1987 testing year are recorded in Table 43, which shows the numbers and percentages of test scores evaluated; also reported are the letter grades and number of semester hours of credit eligibility. All of the examinations were given on the U.T. Austin campus by the Measurement and Evaluation Center. The 18 (67%) scores that earned qualifying scores produced 54 semester hours of credit eligibility.

Table 43
Credit by Examination in Mathematics 301
CLEP College Algebra
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	14	52%	42
With grade of <u>B</u>	2	7%	6
With grade of <u>C</u>	2	7%	6
Total eligible	18	67%*	54
Not eligible	9	33%	0
Total	27	100%	54

* Because of rounding error, this percentage (67%) differs by 1% from the percentage (66%) obtained by addition of the above three percentages.

Note. Because eligibility for credit is not based on CLEP scores alone, no CLEP scores are listed.

Mathematics 305G: Elementary Functions and Co-ordinate Geometry

The U.T. Austin Department of Mathematics uses two College Board Achievement Tests for credit by examination in Mathematics 305G. The preferred test is Mathematics Level I, but Mathematics Level II may be used as an alternative. The Level I test is available in both institutional (on-campus) administrations and national administrations; the Level II test is offered only through national administrations. Both tests allow one hour of working time.

Most entry-level mathematics courses have as a prerequisite either a minimum satisfactory score on the Mathematics Level I (or Level II) or credit for a specified college-level mathematics course with a minimum satisfactory grade. The prerequisites are strictly enforced; they can be modified only by the undergraduate adviser in the Department of Mathematics. A score of 460 or higher on the Mathematics Level I/Level II test is a prerequisite for Chemistry 301, Computer Sciences 304P, and Computer Sciences 304F.

Table 44 presents the results of the 1986-1987 testing year administrations, institutionally and nationally, of the Mathematics Achievement Tests, both Level I and Level II. Numbers and percentages of test scores evaluated are displayed with the resulting number of letter grades and semester hours of credit eligibility shown as well.

The Measurement and Evaluation Center administered 5,178 (65%) of the Mathematics Achievement tests documented in this Special Report. There were 2,842 (35%) scores from national administrations--2,237 scores for the Mathematics Level I test and 605 scores for the Mathematics Level II test. The institutional administrations produced 1,705 qualifying scores--a success rate of 33%. In national administrations of the Level I test, there were 1,005 test scores meriting credit, a success rate of 45%. The Mathematics Level II test had a success rate of 90% on 543 qualifying scores. Overall, in both institutional and national administrations, 8,020 scores from the Mathematics Achievement Tests were evaluated during the 1986-1987 testing year. A total of 3,253 (41%) test scores merited credit for Mathematics 305G, from which 9,759 semester hours of credit eligibility accrued.

Table 44

Credit by Examination in Mathematics 305G
Achievement Tests in Mathematics Level I and Mathematics Level II
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	856	11%	2,568
With grade of <u>B</u>	1,321	16%	3,963
With grade of <u>C</u>	1,076	13%	3,228
Total eligible	3,253	41%*	9,759
----- Not eligible	4,767	59%	0
Total	8,020	100%	9,759

*Because of rounding error, this figure (41%) differs by 1% from the total (40%) obtained by addition of the above three percentages.

Note. Score ranges: 670-800 = A, 600-669 = B, 560-599 = C, 200-559 = no credit.

Mathematics 808A: Calculus I

The College Board College-Level Examination Program (CLEP) Subject Examination in Calculus with Elementary Functions allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade for Mathematics 808A are eligible to take this optional test.

Results from institutional and national administrations of the CLEP Calculus test for the 1986-1987 testing year are shown in Table 45. Numbers and percentages of test scores evaluated are displayed along with letter grades and semester hours of credit eligibility. There were 59 CLEP Calculus scores evaluated during this time period; 48 (81%) test scores warranted 4 semester hours of credit, and 192 semester hours of credit eligibility accrued. The Measurement and Evaluation Center administered all of these examinations on the U.T. Austin campus.

Table 45

Credit by Examination in Mathematics 808A: CLEP Calculus
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	32	54%	128
With grade of <u>B</u>	13	22%	52
With grade of <u>C</u>	3	5%	12
Total eligible	48	81%	192
----- Not eligible	11	19%	0
Total	59	100%	192

Note. Score ranges: 56-80 = A, 51-55 = B, 46-50 = C, 20-45 = no credit.

Mathematics 808A and 808B: Calculus I and II

Two College Board Advanced Placement (AP) Examinations are used in the credit-by-examination program for Mathematics 808A and 808B--the Mathematics AP Examinations in Calculus AB and in Calculus BC. Each of these examinations allots approximately three hours of working time. Each examination is divided into two sections; Section I consists of multiple-choice questions, and Section II consists of problems requiring written solutions. The two sections are allotted roughly equal timing.

On the Calculus AB examination, College Board scores of 5 and 4 merit 4 semester hours of credit for Mathematics 808A with the letter grade of A. A score of 3 is awarded a B for the course; scores of 2 and 1 do not yield credit eligibility.

Credit in two mathematics courses may be earned by successful scores on the Calculus BC examination. A score of 5 merits credit eligibility in Mathematics 808A and Mathematics 808B with the grade of A for each course. With a score of 4, a student earns eligibility for credit in Mathematics 808A with an A and in Mathematics 808B with a B. A College Board score of 3 qualifies the student for credit in both courses with a grade of B for each course. Scores of 2 or 1 do not yield credit eligibility.

A summary of results from the College Board AP Examinations in Mathematics for 1986-1987 is presented in Table 46. Numbers and percentages of test scores evaluated and test scores generating credit eligibility are shown along with letter grades and semester hours of credit eligibility. On the Calculus AB examination, 403 scores were evaluated, and 292 eligible test scores produced 1,168 semester hours of credit eligibility. With a smaller test volume of 155, the Calculus BC examination produced 129 eligible test scores and 1,032 semester hours of credit eligibility.

When results from the two College Board Mathematics AP tests are reviewed together, 558 scores were received from national administrations, 421 of which had qualifying scores--a success rate of 75%--which produced 2,200 semester hours of credit eligibility.

Table 46

Credit by Examination in Mathematics 808A and 808B
AP Examinations in Calculus AB and BC
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Course and Grade				Semester Hours of Credit Eligibility
					808A		808B		
	N	%	N	%	<u>A</u>	<u>B</u>	<u>A</u>	<u>B</u>	N
Calculus AB									
5,4	166	30%	166	39%	166	—	--	--	664
3	126	23%	126	30%	—	126	--	--	504
2,1	111	20%	0	0%	--	--	--	--	0
Subtotal	403	72%*	292	69%	166	126	--	--	1,168
Calculus BC									
5	45	8%	45	11%	45	—	45	--	360
4	36	6%	36	9%	36	--	--	36	288
3	48	9%	48	11%	--	48	--	48	384
2,1	26	5%	0	0%	--	--	--	--	0
Subtotal	155	28%	129	31%	81	48	45	84	1,032
Total	558	100%	421	100%	247	174	45	84	2,200

*Because of rounding error, this figure (72%) differs by 1% from the total (73%) obtained by addition of the above three percentages on the Calculus AB test.

Results of the total U.T. Austin 1986-1987 credit-by-examination program in mathematics are documented in Table 47. Numbers and percentages are shown for test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The two College Board Achievement tests in Mathematics, Level I and Level II, provided the largest portion of the mathematics test volume. During this time period, 8,020 Mathematics Achievement Test scores were evaluated--92% of the 8,675 scores for the year. The 3,253 qualifying scores from these two tests (87% of the total of 3,748 eligible scores) generated 9,759 semester hours of credit eligibility --80% of the 12,236 semester hours in the subject area of mathematics. With results from all 8,675 tests combined, 3,748 tests yielded scores eligible for credit--a success rate of 43% overall.

Table 47

Summary of Credit by Examination in Mathematics
1986-1987

Test and Course(s)	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
CLEP: M 301	27	<1%	18	<1%	54	<1%
Mathematics Level I, II: M 305G	8,020	92%	3,253	87%	9,759	80%
CLEP: M 808A	59	1%	48	1%	192	2%
AP (AB): M 808A	403	5%	292	8%	1,168	10%
AP (BC): M 808A, 808B	155	2%	129	3%	1,032	8%
Dep't: Miscellaneous	11	<1%	8	<1%	31	<1%
Total	8,675	100%	3,748	99%*	12,236	100%

*This figure differs from 100% only because of rounding error.

PHYSICS

Physics 302K and 302L (General Physics) and 102M and 102N (General Physics Laboratory I and II)

Two College Board tests are used to award credit by examination in Physics 302K, 302L, 102M, and 102N: The College Board Achievement Test in Physics and the College Board Advanced Placement (AP) Examination in Physics B.

The College Board Achievement Test in Physics allows one hour of working time. This optional test is available both in institutional administrations on the U.T. Austin campus and in College Board national administrations. For both types of administration, the results from the 1986-1987 testing year are presented in Table 48. The Measurement and Evaluation Center gave 22 Physics Achievement tests during this time period; the remaining 276 scores were reported to U.T. Austin from national administrations. On 160 (54%) of the 298

Table 48
Credit by Examination in Physics: Achievement Test in Physics
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	51	17%	408
With grade of <u>B</u>	61	20%	488
With grade of <u>C</u>	48	16%	384
Total eligible	160	54%*	1,280
Not eligible	138	46%	0
Total	298	100%	1,280

* Because of rounding error, this percentage (54%) differs by 1% from the percentage (53%) obtained by addition of the above three percentages.

Note. Score ranges: 690-800 = A, 630-689 = B, 570-629 = C, 200-569 = no credit.

test scores evaluated by the Measurement and Evaluation Center during 1986-1987, students earned 1,280 semester hours of credit eligibility.

The College Board Advanced Placement (AP) Examination in Physics B is three hours in length; the time is divided equally between a multiple-choice section and a free-response section. This optional test is available through national administrations.

College Board scores of 5 and 4 qualify the student for credit eligibility in Physics 302K, 302L, 102M, and 102N with a letter grade of A in each course. A score of 3 merits credit for each of the four courses with the grade of B. Scores of 2 and 1 are not eligible for credit.

Table 49 shows the results for the AP Examination in Physics B during the 1986-1987 testing year. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as the resultant letter grades and semester hours of credit eligibility. On 40 (75%) of the 53 test scores evaluated by the Measurement and Evaluation Center, students earned 320 semester hours of credit eligibility.

Table 49

Credit by Examination in Physics: AP Physics B
1986-1987

Score	Test Scores Evaluated		Test Scores Generating Eligibility		Grade		Semester Hours of Credit Eligibility
	N	%	N	%	<u>A</u>	<u>B</u>	N
5,4	14	26%	14	35%	14	--	112
3	26	49%	26	65%	--	26	208
2,1	13	25%	--	--	--	--	0
Total	53	100%	40	100%	14	26	320

Physics 303K and 103M: Engineering Physics I, or
Physics 301 and 101: Mechanics, or
Physics 317K and 117M: General Physics I

The College Board Advanced Placement (AP) Examination in Physics C, Mechanics, allows 45 minutes of working time for the multiple-choice section and 45 minutes of working time for the free-response section. This optional test is available through on-campus, institutional administrations and national administrations.

Students have a choice of the courses for which they may attempt to earn credit; course selection is usually based upon the student's degree requirements. The course options are Physics 303K and 103M, Physics 301 and 101, or Physics 317K and 117M.

Results from 1986-1987 national and institutional administrations of the AP Examination in Physics C, Mechanics, are documented in Table 50. The institutionally administered tests are shown in a single row. The nationally administered tests are displayed by College Board AP Examination ratings. This table does not report the students' selection of specific courses because those choices will not be known until the students claim their credit in subsequent months or years. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as letter grades and the number of semester hours of credit eligibility.

The Measurement and Evaluation Center administered 18 AP Examinations in Physics C, Mechanics, which were 25% of the scores evaluated during that time period. The success rate on these institutional tests was 17%; three scores of the 18 tests qualified for credit. The 55 students who took the examination in national administrations appeared to be better prepared; 15 (82%) of the scores from the national program merited credit. Overall, 73 scores were evaluated, with 48 (66%) scores generating 192 semester hours of credit eligibility.

Table 50

Credit by Examination in Physics: AP Physics C - Mechanics
1986-1987

Test Category	Test Scores Evaluated		Test Scores Generating Eligibility		Grade				Semester Hours of Credit Eligibility
	N	%	N	%	<u>A</u>	<u>B</u>	<u>C</u>	Pending**	N
Institutional	18	25%	3	6%	1	0	2	—	12
National Score									
5	12	16%	12	25%	12	—	—	—	48
4	18	25%	18	38%	0	18	—	—	72
3	15	21%	15	31%	0	—	—	15	60
2,1	10	14%	0	0%	—	—	—	—	0
Total	73	101%*	48	100%	13	18	2	15	192

*This figure differs from 100% only because of rounding error.

**A College Board score of 3 on this examination allows the choice of Physics 302K and 102M with grades of A, or Physics 303K and 103M or Physics 317K and 117M with grades of C. At date of publication, the students' actual choices had not been recorded.

Physics 303L and 103N: Engineering Physics II, or
Physics 316 and 116L: Electricity and Magnetism, or
Physics 317L and 117N: General Physics II

The College Board Advanced Placement (AP) Examination in Physics C, Electricity and Magnetism, allows 45 minutes of working time for the multiple-choice section and 45 minutes of working time for the free-response section. This optional test is available through both on-campus, institutional administrations and national administrations.

Students have a choice of the courses for which they may attempt to earn credit; course selection is usually based upon the students' degree requirements. The course options for the AP Examination in Physics C, Electricity and Magnetism, are Physics 303L and 103N, Physics 316 and 116L, or Physics 317L and 117N.

The results from the 1986-1987 institutional and national administrations of the AP Examination in Physics C, Electricity and Magnetism, are documented in Table 51. The institutionally administered tests are shown in a single row. The nationally administered tests are displayed by College

Table 51

Credit by Examination in Physics: AP Physics C -
Electricity and Magnetism
1986-1987

Test Category	Test Scores Evaluated		Test Scores Generating Eligibility		Grade				Semester Hours of Credit Eligibility
	N	%	N	%	<u>A</u>	<u>B</u>	<u>C</u>	Pending*	N
Institutional	10	19%	3	8%	2	0	1	--	12
National Score									
5	6	11%	6	17%	6	--	--	--	24
4	15	28%	15	42%	--	15	--	--	60
3	12	22%	12	33%	0	--	--	12	48
2,1	11	20%	0	0%	---	--	--	--	0
Total	54	100%	36	100%	8	15	1	12	144

*A College Board score of 3 on this examination allows the choice of Physics 302L and 102N with grades of A, or Physics 303L and 103N or Physics 317L and 117N with grades of C. At date of publication, the students' actual choices had not been recorded.

Board ratings. This table does not report the students' selection of specific courses because those choices will not be known until the students claim their credit in subsequent months or years. Numbers and percentages of test scores evaluated and test scores generating eligibility are shown, as well as letter grades and the number of semester hours of credit eligibility.

The Measurement and Evaluation Center administered 10 AP Examinations in Physics C, Electricity and Magnetism, which produced 19% of the scores evaluated during this time period. The success rate on these institutional tests was 30%; three scores from the 10 tests qualified for credit. The 44 students who took the examination in national administrations had a higher success rate of 75%. Overall, 54 scores were evaluated, with 36 (67%) scores generating 144 semester hours of credit eligibility.

Table 52 documents the results of credit by examination in physics during the 1986-1987 testing year. Numbers and percentages are shown for test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility generated. The College Board Achievement Test in Physics produced the majority of the volume--298 (62%) of the 478 test scores evaluated, 160 (56%) of the 284 test scores that qualified students for credit eligibility, 1,280 (66%) of the 1,936 semester hours of credit eligibility. The overall success rate in physics was 59%.

Table 52

Summary of Credit by Examination in Physics
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	298	62%	160	56%	1,280	66%
AP: Physics B	53	11%	40	14%	320	17%
AP: Physics C, Mech	73	15%	48	17%	192	10%
AP: Physics C, E & M	54	11%	36	13%	144	7%
Total	478	99%*	284	100%	1,936	100%

*This figure differs from 100% only because of rounding error.

PSYCHOLOGY

Psychology 301: Introduction to Psychology

The College Board College-Level Examination Program (CLEP) Subject Examination in General Psychology allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade for Psychology 301 are eligible to take this optional examination.

Table 53 presents the results of credit by examination in psychology during the 1986-1987 testing year. The numbers and percentages of test scores evaluated and the number of semester hours of credit eligibility are shown. The Measurement and Evaluation Center administered 52 (95%) of the 55 CLEP psychology examinations recorded for the time period under consideration. The remaining three scores were reported to U.T. Austin from national administrations of the test. Of the test scores evaluated, 43 (78%) qualified for credit and generated 129 semester hours of credit eligibility.

Table 53
Summary of Credit by Examination in Psychology 301
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	6	11%	18
With grade of <u>B</u>	13	24%	39
With grade of <u>C</u>	24	44%	72
Total eligible	43	78%*	129
-----	-----	-----	-----
Not eligible	12	22%	0
Total	55	100%	129

*Because of rounding error, this figure (78%) differs by 1% from the total (79%) obtained by addition of the above three percentages.

Note. Score ranges: 65-80 = A, 55-64 = B, 47-54 = C, 20-46 = no credit.

RUSSIAN

The Department of Slavic Languages used two types of tests in its 1986-1987 program of credit by examination: a College Board Achievement test and tests constructed locally by the department.

The College Board Achievement Test in Russian Listening-Reading is divided into two sections--a 20-minute taped listening portion with 40 questions and a 40-minute reading portion with 60 questions. This test is available only on the U.T. Austin campus.

Eligible to take this test are individuals who have not taken the test previously at an institutional administration. The test is required of all students with previous knowledge of Russian who intend to enroll in a U.T. Austin Russian course.

Credit by examination can be earned for the following six lower-division courses: Russian 506 (First-Year Russian I), Russian 507 (First-Year Russian II), Russian 312K (Second-Year Russian I), Russian 312L (Second-Year Russian II), and Russian 218A and 218B (Practice in Spoken Russian).

Credit is based on a combination of test scores and the results of a personal interview with a faculty member in the Department of Slavic Languages. Credit is reported to the Measurement and Evaluation Center throughout the year as students complete their interviews.

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 13 College Board Achievement Tests in Russian Listening-Reading. Table 54 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 13 tests are shown in a different format in Table 55; the results are arranged by combination of courses in which credit eligibility was generated.

The 10 (77%) tests that produced qualifying scores generated 170 semester hours of credit eligibility. Eight tests merited the maximum amount of credit eligibility (18 semester hours) available to students for successful performance on this test.

Table 54

Credit by Examination: Achievement Test in Russian Listening-Reading
1986-1987
(Number of Test Scores Evaluated: 13)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		<u>A</u>	<u>B</u>	<u>C</u>	
506	10	10	0	0	50
507	10	9	1	0	50
312K	9	9	0	0	27
312L	9	9	0	0	27
218	8	8	0	0	16
Total	—	—	—	—	170

Table 55

Credit by Examination: Achievement Test in Russian Listening-Reading
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L, 218	8	62%	144	85%
506, 507, 312K, 312L	1	8%	16	9%
506, 507, 312K	0	0%	--	--
506, 507	1	8%	10	6%
506	0	0%	--	--
Total eligible	10	77%*	170	100%
Not eligible	3	23%	0	0%
Total	13	100%	170	100%

*Because of rounding error, this percentage (77%) differs by 1% from the percentage (78%) obtained by addition of the above five percentages.

Including the locally constructed tests, the overall 1986-1987 credit-by-examination program in Russian is documented in Table 56, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in Russian Listening-Reading constituted 93% of the Russian test volume. This test had 10 scores that warranted credit and 91% of the total of 11 eligible test scores, which produced 170 semester hours of credit eligibility--99% of the 171 semester hours of credit eligibility earned in Russian.

Table 56

Summary of Credit by Examination in Russian
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	13	93%	10	91%	170	99%
Dep't: Miscellaneous	1	7%	1	9%	1	1%
Total	14	100%	11	100%	171	100%

SOCIOLOGY

Sociology 302: Introduction to the Study of Society

The College Board College-Level Examination Program (CLEP) Subject Examination in Sociology allows one hour and 30 minutes of working time. Individuals who have not taken the test within the past six months and have neither a passing nor a failing grade in Sociology 302 or its equivalent are eligible to take this optional test.

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 86 CLEP Sociology examinations on the U.T. Austin campus; six such scores were reported to U.T. Austin from national administrations of the examination.

Table 57 presents the results of credit by examination in sociology during the time period under review. Numbers and percentages of test scores evaluated are recorded with the corresponding numbers of semester hours of credit eligibility. A total of 92 CLEP Sociology scores were evaluated; 84 (91%) test scores qualified for 252 semester hours of credit eligibility.

Table 57
Summary of Credit by Examination in Sociology
1986-1987

Eligible for Credit	Test Scores Evaluated		Semester Hours of Credit Eligibility
	Number	Percentage	
With grade of <u>A</u>	23	25%	69
With grade of <u>B</u>	31	34%	93
With grade of <u>C</u>	30	33%	90
Total eligible	84	91%*	252
Not eligible	8	9%	0
Total	92	100%	252

*Because of rounding error, this percentage (91%) differs by 1% from the percentage (92%) obtained by addition of the above three percentages.

Note. Score ranges: 64-80 = A, 59-63 = B, 53-58 = C, 20-52 = no credit.

SPANISH

Three College Board examinations are used to award credit by examination in Spanish at U.T. Austin: the Achievement Test in Spanish Listening-Reading and two Advanced Placement (AP) Examinations in Spanish--Spanish Language and Spanish Literature.

The more commonly used test, the College Board Achievement Test in Spanish Listening-Reading, is available only on the U.T. Austin campus. This test is divided into two sections--a 20-minute taped listening portion and a 40-minute reading portion. Students who have not taken the test previously in an institutional administration are eligible to attempt to earn credit by means of this test. This test is required of all students who have knowledge of Spanish, who have no college credit in Spanish, and who intend to enroll in a U.T. Austin Spanish course. It is possible for students to earn credit for the first four Spanish courses: Spanish 506, First-Year Spanish I (Beginners' Spanish); Spanish 507, First-Year Spanish II (Intermediate Spanish); Spanish 312K: Second-Year Spanish I (Oral Expression, Reading, Composition); Spanish 312L: Second-Year Spanish II (Oral Expression, Reading, Composition).

During the 1986-1987 testing year, the Measurement and Evaluation Center administered 2,866 Spanish Achievement Listening-Reading tests. Table 58 presents the results, by course, of those tests. The number of test scores generating credit, the letter grades, and the number of semester hours of credit eligibility generated for a specific course are recorded. Data on the same 2,866 tests are shown in a different format in Table 59; results are arranged by combination of courses for which credit was generated. The 2,400 (84%) tests on which students earned qualifying scores produced 23,460 semester hours of credit eligibility. The largest segment of this eligible test volume was that of the 1,065 (37%) test scores that earned credit for Spanish 506 only with a total of 5,325 (23%) semester hours. The second-ranked group was the 699 (24%) that merited the maximum amount of credit eligibility (16 semester hours) available for successful performance on this test. This well-prepared group earned 11,184 semester hours of credit eligibility, 48% of the total of 23,460 semester hours.

Table 58
Credit by Examination: Achievement Test in Spanish Listening-Reading
1986-1987
(Number of Test Scores Evaluated: 2,866)

Course	Test Scores Generating Eligibility	Grade			Semester Hours of Credit Eligibility
		<u>A</u>	<u>B</u>	<u>C</u>	
506	2,400	1,133	438	829	12,000
507	1,335	761	227	347	6,675
312K	896	468	201	227	2,688
312L	699	361	163	175	2,097
Total	--	--	--	--	23,460

Table 59
Credit by Examination: Achievement Test in Spanish Listening-Reading
1986-1987

Combination of Courses	Test Scores Evaluated		Semester Hours of Credit Eligibility	
	N	%	N	%
506, 507, 312K, 312L	699	24%	11,184	48%
506, 507, 312K	197	7%	2,561	11%
506, 507	439	15%	4,390	19%
506	1,065	37%	5,325	23%
Total eligible	2,400	84%*	23,460	101%**
Not eligible	466	16%	0	0%
Total	2,866	100%	23,460	100%

*Because of rounding error, this percentage (84%) differs by 1% from the percentage (83%) obtained by addition of the above four percentages.

**This figure differs from 100% only because of rounding error.

Table 60

Placement System for Scores Received After May 15, 1980, on the
College Board Achievement Test in Spanish Listening-Reading--
Credit by Examination in Spanish

Composite Score	Credit and Grade				Register for
	506	507	312K	312L	
750-800	<u>A</u>	<u>A</u>	<u>A</u>	<u>A</u>	SPN 315M, 315N, 318
710-749	<u>A</u>	<u>A</u>	<u>A</u>	<u>B</u>	SPN 315M, 315N, 318
690-709	<u>A</u>	<u>A</u>	<u>B</u>	<u>B</u>	SPN 315M, 315N, 318
640-689	<u>A</u>	<u>A</u>	<u>B</u>	<u>C</u>	SPN 315M, 315N, 318
630-639	<u>A</u>	<u>A</u>	<u>C</u>	<u>C</u>	SPN 315M, 315N, 318
610-629	<u>A</u>	<u>A</u>	<u>C</u>		SPN 312L
570-609	<u>A</u>	<u>B</u>	<u>C</u>		SPN 312L
550-569	<u>A</u>	<u>B</u>			SPN 312K
520-549	<u>A</u>	<u>C</u>			SPN 312K
490-519	<u>B</u>	<u>C</u>			SPN 312K
460-489	<u>B</u>				SPN 508K
400-459	<u>C</u>				SPN 508K
200-399	No Credit				SPN 506

The College Board AP Examination in Spanish Language is approximately two hours and 30 minutes long. Listening and reading abilities are tested in the multiple-choice portion; the free-response portion evaluates writing and speaking skills. A College Board score of 5 on this examination qualifies a student for credit in the first four Spanish courses (506, 507, 312K, 312L), Spanish 319 and 327--all six courses with the letter grade of A. The student who earns a score of 4 becomes eligible for A's in the first four courses and B's in Spanish 319 and 327. A score of 3 qualifies the student for credit in each of the first four courses with the grade of A and in Spanish 319 with a grade of B. The score of 2 merits credit in the first three Spanish courses with an A for each course. A rating of 1 does not qualify the student for credit in Spanish.

The College Board AP Examination in Spanish Literature is approximately three hours long. Between 70 and 90 minutes are allotted to the multiple-choice section; the free-response section is allotted between 90 and 100 minutes. A College Board score of 5 on this examination qualifies a student for credit in the first four Spanish course, Spanish 315N and 327--all six courses with the letter grade of A. The student who earns a score of 4 becomes eligible for the letter grade of A in the first four courses and for the letter grade of B in Spanish 315N and 327. A score of 3 qualifies the student for credit in the first four courses with A's and credit for 315N with a B. The score of 2 yields credit in the first three courses with an A for each course. A rating of 1 yields no credit in Spanish.

The results of the two College Board AP Spanish examinations are presented in Table 61. A total of 107 test scores were evaluated for the Spanish Language test with 96 (90%) test scores earning 1,830 semester hours of credit eligibility. Fifteen test scores were evaluated from the Spanish Literature examination, all of which merited credit; they produced 291 semester hours of credit eligibility. Combined, 111 (91%) of the 122 AP scores evaluated at U.T. Austin yielded 2,121 semester hours of credit eligibility in Spanish.

Table 61

Credit by Examination: AP in Spanish Language or Literature
1986-1987

Score	Test Scores Evaluated	Test Scores Generating Eligibility	Courses					Semester Hours of Credit Eligibility
			506, 507, 312K	312L	315N	319	327	
Lan- guage								
5	29	29	29	29	--	29	29	638
4	17	17	17	17	--	17	17	374
3	28	28	28	28	--	28	--	532
2	22	22	22	--	--	--	--	286
1	11	0	--	--	--	--	--	0
Sub- total	107	96	96	74	--	74	46	1,830
Liter- ature								
5	4	4	4	4	4	--	4	88
4	4	4	4	4	4	--	4	88
3	4	4	4	4	4	--	--	76
2	3	3	3	--	--	--	--	39
1	0	0	--	--	--	--	--	0
Sub- total	15	15	15	12	12	--	8	291
Total	122	111	111	86	12	74	54	2,121

Results of the total 1986-1987 credit-by-examination program in Spanish are documented in Table 62, which shows the numbers and percentages of test scores evaluated, test scores generating eligibility, and semester hours of credit eligibility. The College Board Achievement Test in Spanish Listening-Reading, administered by the Measurement and Evaluation Center, accounted for 95% of the test volume in Spanish. On this test, 2,400 scores warranted credit, 95% of the total of 2,525 eligible test scores. The successful Achievement tests produced 23,460 semester hours of credit eligibility--92% of the total of 25,623 semester hours of credit eligibility in Spanish. Table 62 also includes the results of 14 departmentally administered, locally constructed tests in a variety of Spanish courses.

Table 62

Summary of Credit by Examination in Spanish
1986-1987

Test	Test Scores Evaluated		Test Scores Generating Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Achievement	2,866	95%	2,400	95%	23,460	92%
AP	122	4%	111	4%	2,121	8%
Dep't: Miscellaneous	14	<1%	14	1%	42	<1%
Total	3,002	99%*	2,525	100%	25,623	100%

*This figure differs from 100% only because of rounding error.

SUMMARY

This Special Report documents the results of U.T. Austin's program of credit by examination during the 1986-1987 testing year. The data present a basis for a comprehensive picture of the impact of the program on this campus. The examinations covered 51 subject areas with 171 courses taught in 36 departments/divisions in eight colleges and schools of the University: Business Administration, Communication, Education, Engineering, Fine Arts, Liberal Arts, Natural Sciences, and Nursing.

Evaluation of 26,023 test scores is recorded in this report. Because many students took more than one test, the total number of tests exceeds the actual number of students who attempted to earn credit by examination.

On 13,514 (52%) of these tests, students achieved scores high enough to qualify for 73,010 semester hours of credit eligibility. Conversely, on 12,509 (48%) of these tests, students' scores were too low to warrant credit by examination.

During 1986-1987, there was an increase of 1% over the preceding year in the number of test scores evaluated; it was accompanied by a 10% increase in the number of semester hours of credit eligibility. Across the five years from 1982-1983 through 1986-1987, there has been a 23% increase in the number of test scores evaluated and a 47% increase in the number of semester hours of credit eligibility earned by the candidates for credit by examination.

The reader should be aware that no attempt was made in this report to document the semester hours of credit reported by the Measurement and Evaluation Center (MEC) to the Registrar's office for this testing year.

Table 63 and Figure 1 display the results of tests in the 10 subjects in which the majority of the students were tested during 1986-1987: biology, chemistry, English, French, German, government, history, mathematics, physics, and Spanish. This table shows the numbers and percentages of test scores evaluated for each subject, along with the numbers and percentages of tests generating credit and the semester hours of credit eligibility generated in each area. Figure 1 compares test volume and semester hours generated among the same 10 subjects.

Table 63

Summary of Credit by Examination at U.T. Austin:
Test Volume and Credit Eligibility
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Biology	266	1%	202	1%	1,500	2%
Chemistry	747	3%	279	2%	964	1%
English	9,246	36%	3,893	29%	12,936	18%
French	993	4%	696	5%	7,086	10%
German	422	2%	201	1%	1,818	2%
Government	733	3%	610	5%	1,830	3%
History	625	2%	331	2%	1,848	3%
Mathematics	8,675	33%	3,748	28%	12,236	17%
Physics	478	2%	284	2%	1,936	3%
Spanish	3,002	12%	2,525	19%	25,623	35%
Subtotal	25,187	97%*	12,769	94%	67,777	93%*
All other subjects	836	3%	745	6%	5,233	7%
Total	26,023	100%	13,514	100%	73,010	100%

*Because of rounding error, this percentage differs by 1% from the percentage obtained by addition of the above 10 percentages.

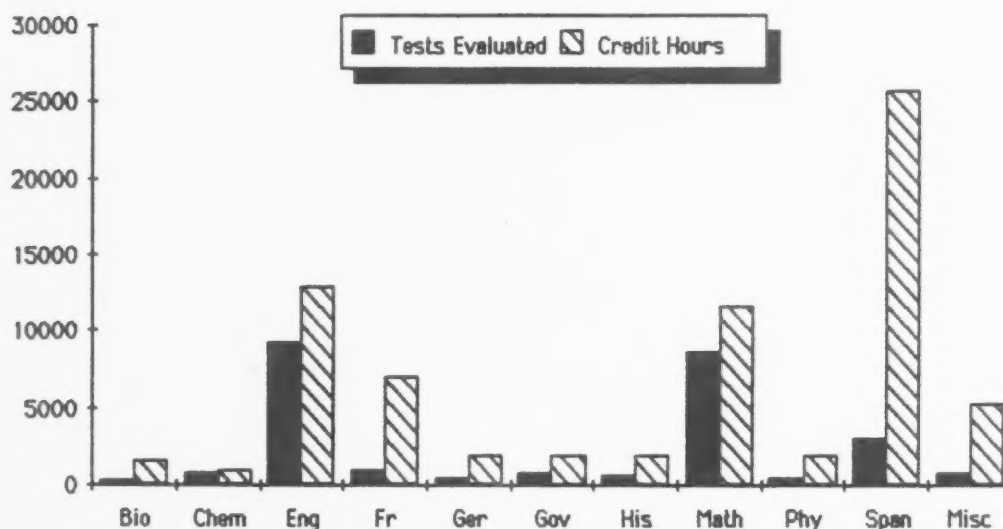


Figure 1. This figure displays test volume and semester hours of credit eligibility generated in the 10 major subject areas and in a miscellaneous category for all other subjects.

Those 10 subjects accounted for 25,187 examinations. That number represents 97% of the total test volume during 1986-1987, with all other subjects making up the remaining 3%. With satisfactory scores on 12,769 tests, those 10 high volume subjects also produced most of the credit eligibility generated by the program during 1986-1987: 67,777 semester hours, or 93% of the total of 73,010.

Three subjects stand out as the ones in which students most often attempted to earn credit by examination: English and Spanish in the College of Liberal Arts and mathematics in the College of Natural Sciences. During the 1986-1987 testing year, 20,923 (80%) of the 26,023 test scores evaluated were in those three subjects. In combination, those three subjects provided 10,166 test scores generating credit eligibility, or 75% of the 13,514 successful attempts. As one might expect, those three areas also generated the majority of semester hours of credit eligibility: 50,795, or 70% of the total of 73,010 semester hours. The 9,246 English tests produced the highest

volume for a single subject; they constituted 36% of the total volume. Placing second in test volume were the 8,675 (33%) mathematics tests, which were followed in the third place by Spanish with 3,002 (12%) tests.

Table 64 compares results from the 1986-1987 year by subject with those from the 1985-1986 testing year. Numbers of test scores evaluated, test scores generating credit, and semester hours of credit eligibility are shown, as well as differences between the two years. The 10 subjects that generated the majority of the test volume are listed discretely; results of tests in all other subjects are combined.

The total of 26,023 test scores were evaluated during the 1986-1987 testing year compared to a total of 25,650 during the preceding year--an increase in volume of 373 (1%) tests. At the same time, 13,514 test scores generated credit eligibility in 1986-1987, an increase of 1,038 (8%) over the 12,476 successful tests in 1985-1986. The number of semester hours of credit eligibility generated rose 10%, an additional 6,812 hours, from 66,198 to 73,010.

In English, the largest subject area in test volume, there was a decrease of 40 (<1%) in the number of test scores evaluated during 1986-1987, and a 9% increase in the number of test scores meriting credit. This increase of 330 qualifying test scores produced a comparable increase of 885 (7%) in the number of semester hours, a total of 12,936 hours.

As a subject, mathematics also experienced a decrease over the two years. There were 408 (-4%) fewer test scores evaluated during 1986-1987, while 144 (4%) additional test scores generated credit eligibility and, as a consequence, the number of semester hours earned increased by 643 (6%).

Spanish had an increase of 244 (9%) in its test population. Spanish test scores generating credit increased by 230 (10%), while the number of semester hours of credit eligibility earned by the successful students increased by 2,155 (9%).

In history, an additional 113 scores brought that subject's testing volume up from 512 to 625--an increase of 22%. There were 331 tests meriting

Table 64
Comparisons, by Subject, Including Numbers of Test Scores Evaluated, Tests Generating Credit Eligibility, Semester Hours of Credit Eligibility, and Differences Between 1985-1986 and 1986-1987

Subject	Test Scores Evaluated				Test Scores Generating Eligibility				Semester Hours of Credit Eligibility			
	'85-'86	'86-'87	Difference		'85-'86	'86-'87	Difference		'85-'86	'86-'87	Difference	
	N	N	N	%	N	N	N	%	N	N	N	%
Biology	218	266	48	22%	160	202	42	26%	1,095	1,500	405	37%
Chemistry	680	747	67	10%	231	279	48	21%	813	964	151	19%
English	9,286	9,246	-40	<1%	3,563	3,893	330	9%	12,051	12,936	885	7%
French	904	993	89	10%	690	696	6	1%	6,292	7,086	794	13%
German	340	422	82	24%	278	201	-77	-28%	2,694	1,818	-876	-33%
Government	688	733	45	7%	517	610	93	18%	1,551	1,830	279	18%
History	512	625	113	22%	257	331	74	29%	1,482	1,848	366	25%
Mathematics	9,083	8,675	-408	-4%	3,604	3,748	144	4%	11,593	12,236	643	6%
Physics	448	478	30	7%	238	284	46	19%	1,672	1,936	264	16%
Spanish	2,758	3,002	244	9%	2,295	2,525	230	10%	23,468	25,623	2,155	9%
Subtotal	24,917	25,187	270	1%	11,833	12,769	936	8%	62,711	67,777	5,066	8%
All other subjects	733	836	103	14%	643	745	102	16%	3,487	5,233	1,746	50%
Total	25,650	26,023	373	1%	12,476	13,514	1,038	8%	66,198	73,010	6,812	10%

credit--an increase of 74 (29%)--and a total of 1,848 semester hours of credit eligibility--an increase of 25%. Government had an increase of 45 (7%) in test volume (from 688 to 733 test scores). The 610 government test scores generating credit, an increase of 93 (18%), produced 1,830 semester hours of credit, an increase of 279 (18%).

Test volume in German increased by 82 (24%) tests. The number of test scores generating credit decreased by 77 (-28%). There was a decrease in semester hours of credit eligibility--876 fewer hours for a total of 1,818 hours, a 33% decrease.

Test volume in the third foreign language in this comparison--French--showed an increase of 89 (10%), from 904 to 993 tests. An additional 6 (1%) test scores warranted credit with the resulting total of 7,086 semester hours earned, an increase of 794 (3%).

As a subject, chemistry had an increase of 67 (10%) in test volume. There was an increase of 48 (21%) in the number of test scores meriting credit; the 279 scores of 1986-1987 produced a total of 964 semester hours of credit eligibility, an increase of 151 (19%) additional hours.

Test volume increased by 48 (22%) in biology; the number of test scores generating credit increased by 42 (26%). There was an increase of 405 (37%) in the number of semester hours of credit eligibility earned in 1986-1987.

Physics showed an increase of 30 (7%) in test volume, an increase of 46 (19%) in test scores generating credit, and an increase of 264 (16%) in the amount of credit eligibility earned by the students.

Tests in all other subjects combined increased from 733 to 836, a gain of 103 (14%) in test volume, with an additional 102 (16%) test scores producing 1,746 (50%) additional semester hours of credit eligibility.

Also presented by subject areas, Table 65 and Figure 2 provide a five-year summary of credit by examination at U.T. Austin. Numbers for test scores evaluated and semester hours of credit eligibility are recorded for the years 1982-1983 through 1986-1987. Once again, the 10 largest volume

Table 65
Five-Year Summary of Credit by Examination at U.T. Austin: Numbers of Test Scores Evaluated
and Semester Hours of Credit Eligibility, 1982-1987

Subject	1982-1983		1983-1984		1984-1985		1985-1986		1986-1987	
	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit	Test Scores	Semester Hours of Credit
Biology	200	615	223	924	206	999	218	1,095	266	1,500
Chemistry	695	1,086	700	655	686	778	680	813	747	964
English	7,286	8,859	6,957	9,252	8,166	10,791	9,286	12,051	9,246	12,936
French	624	3,708	769	5,724	852	6,094	904	6,292	993	7,086
German	279	1,896	290	2,226	344	2,862	340	2,694	422	1,818
Government	795	1,509	909	1,740	611	1,398	688	1,551	733	1,830
History	230	624	272	666	475	1,359	512	1,482	625	1,848
Mathematics	7,956	8,209	8,032	9,348	8,959	11,076	9,083	11,593	8,675	12,236
Physics	274	919	337	1,348	373	1,452	448	1,672	478	1,936
Spanish	1,989	19,238	2,266	20,883	2,585	23,181	2,758	23,468	3,002	25,623
Subtotal	20,328	46,663	20,755	52,766	23,257	59,990	24,917	62,711	25,187	67,777
All other subjects	752	2,888	853	3,201	812	3,630	733	3,487	836	5,233
Total	21,080	49,551	21,608	55,967	24,069	63,620	25,650	66,198	26,023	73,010

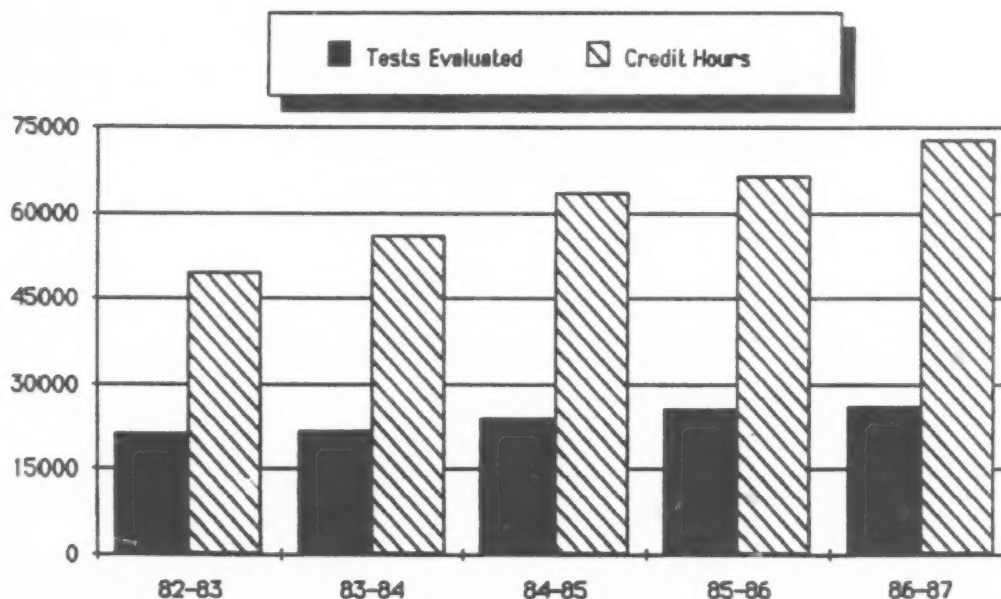


Figure 2. This figure provides a five-year summary of the results of the program of credit by examination at U.T. Austin. It reveals a steady increase in testing volume and in generation of semester hours of credit eligibility from academic years 1982-1983 through 1986-1987.

subjects are shown individually, with all other subjects merged. Across the five years, there were increases of 4,943 (23%) in the number of test scores evaluated and of 23,459 (47%) in the number of semester hours of credit eligibility earned. The greatest increases in the number of semester hours of credit eligibility earned by students occurred in five subjects: history (196%), biology (144%), physics (111%), mathematics (49%), and English (46%).

In Tables 66-73, the results of examinations in the eight colleges and schools are presented separately. Each table in this series shows the subject areas, as well as the numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility. Table 74 summarizes, alphabetically by college and school, the data from the eight tables.

Table 66

College of Business Administration
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Accounting	3	50%	3	50%	9	50%
Data Processing and Analysis	1	17%	1	17%	3	17%
Office Administration	1	17%	1	17%	3	17%
Risk Management and Insurance	1	17%	1	17%	3	17%
Total	6	101%*	6	101%*	18	101%*

*This figure differs from 100% only because of rounding error.

The College of Liberal Arts ranked first in test volume with 15,628 tests--60% of the total volume of 26,023 tests and 55,652 (76%) of the total number of semester hours of credit eligibility. When one recalls that test scores from two of the largest volume tests (College Board Achievement Tests in English Composition and in Spanish Listening-Reading) were recorded in the College of Liberal Arts, it is not surprising that the majority of the test scores evaluated during the year were in this college. The 10,272 (39%) tests in the College of Natural Sciences placed it in second rank; 16,874 (23%) semester hours of credit eligibility accrued. The number of examinations in mathematics (8,675) is largely responsible for this high test volume.

Table 67

College of Communication
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Radio-Television-Film	1	100%	1	100%	3	100%
Total	1	100%	1	100%	3	100%

Table 68

College of Education
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Health Education	1	50%	1	50%	3	50%
Physical Education	1	50%	1	50%	3	50%
Total	2	100%	2	100%	6	100%

Table 69
College of Engineering
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Civil Engineering	1	4%	1	5%	3	5%
Electrical Engineering	20	87%	18	86%	54	89%
Mechanical Engineering	2	9%	2	10%	4	7%
Total	23	100%	21	101%*	61	101%*

* This figure differs from 100% only because of rounding error.

Table 70
College of Fine Arts
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Art	11	37%	6	24%	18	27%
Drama	6	20%	6	24%	16	24%
Music	13	43%	13	52%	32	48%
Total	30	100%	25	100%	66	99%*

*This figure differs from 100% only because of rounding error.

Table 71

College of Liberal Arts
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Arabic	6	<1%	6	<1%	21	<1%
Chinese	163	1%	159	2%	2,680	5%
Czech	1	<1%	1	<1%	3	<1%
Danish	3	<1%	3	<1%	13	<1%
Dutch	6	<1%	6	<1%	30	<1%
Economics	137	1%	119	1%	498	1%
English	9,246	59%	3,893	44%	12,936	23%
French	993	6%	696	8%	7,086	13%
German	422	3%	201	2%	1,818	3%
Government	733	5%	610	7%	1,830	3%
Greek	5	<1%	5	<1%	25	<1%
Hebrew	26	<1%	26	<1%	136	<1%
Hindi	8	<1%	8	<1%	34	<1%
History	625	4%	331	4%	1,848	3%
Italian	11	<1%	11	<1%	51	<1%
Japanese	8	<1%	8	<1%	34	<1%

(continued on next page)

Table 71 (continued)
College of Liberal Arts

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Latin	41	<1%	29	<1%	278	<1%
Norwegian	11	<1%	11	<1%	55	<1%
Persian	2	<1%	2	<1%	12	<1%
Philosophy	1	<1%	1	<1%	3	<1%
Portuguese	8	<1%	8	<1%	44	<1%
Psychology	55	<1%	43	<1%	129	<1%
Russian	14	<1%	11	<1%	171	<1%
Serbo-Croatian	1	<1%	1	<1%	3	<1%
Sociology	92	1%	84	1%	252	<1%
Spanish	3,002	19%	2,525	29%	25,623	46%
Swahili	1	<1%	1	<1%	4	<1%
Swedish	7	<1%	7	<1%	35	<1%
Total	15,628	99%*	8,806	98%*	55,652	97%*

* This figure differs from 100% only because of rounding error.

Table 72
College of Natural Sciences
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Astronomy	1	<1%	1	<1%	3	<1%
Biology	266	3%	202	4%	1,500	9%
Chemistry	747	7%	279	6%	964	6%
Computer Sciences	98	1%	74	2%	222	1%
Geology	1	<1%	1	<1%	3	<1%
Home Economics	4	<1%	2	<1%	4	<1%
Mathematics	8,675	84%	3,748	82%	12,236	73%
Physics	478	5%	284	6%	1,936	11%
Zoology	2	<1%	2	<1%	6	<1%
Total	10,272	100%	4,593	100%	16,874	100%

Table 73
School of Nursing
Summary, by Subject, of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Nursing	61	100%	60	100%	330	100%
Total	61	100%	60	100%	330	100%

Table 74

Summary, by College/School, of Results of U.T. Austin's Program
of Credit by Examination
1986-1987

College/School	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Business Administration	6	<1%	6	<1%	18	<1%
Communication	1	<1%	1	<1%	3	<1%
Education	2	<1%	2	<1%	6	<1%
Engineering	23	<1%	21	<1%	61	<1%
Fine Arts	30	<1%	25	<1%	66	<1%
Liberal Arts	15,628	60%	8,806	65%	55,652	76%
Natural Sciences	10,272	39%	4,593	34%	16,874	23%
Nursing	61	<1%	60	<1%	330	<1%
Total	26,023	99%*	13,514	99%*	73,010	99%*

*This figure differs from 100% only because of rounding error.

Table 75 is ordered by testing category; it shows numbers and percentages of test scores evaluated, test scores generating credit eligibility, and semester hours of credit eligibility. The percentages in Table 75 and in Figure 3 compare the data in each category to the results of the testing program as a whole.

Several observations can be made about the results of the five different testing categories covered in this report. First, institutional, on-campus group administrations considerably outnumbered the other four categories; its

Table 75

Summary, by Testing Category, of Results of U.T. Austin's Program of Credit by Examination
1986-1987

Subject	Test Scores Evaluated		Test Scores Generating Credit Eligibility		Semester Hours of Credit Eligibility	
	N	%	N	%	N	%
Institutional Administrations	16,529	64%	8,129	60%	48,828	67%
Departmental Administrations	260	1%	249	2%	1,103	2%
National Administrations of CLEP Subject Examinations	84	<1%	82	1%	250	<1%
National Administrations of AP Examinations	3,279	13%	2,286	17%	13,795	19%
National Administrations of Achievement Tests	5,871	23%	2,768	20%	9,034	12%
Total	26,023	101%*	13,514	100%	73,010	100%

*This figure differs from 100% only because of rounding error.

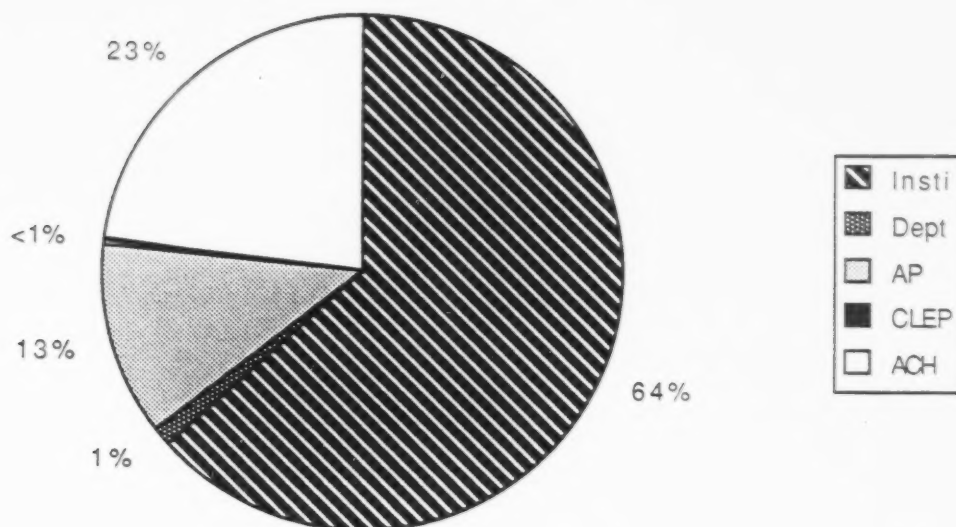


Figure 3. This figure shows the percentages of test scores evaluated by the Measurement and Evaluation Center in each of five categories of test administration.

16,529 tests were responsible for 64% of the test volume documented in this Special Report. This category was also the source of the highest percentage (67%) of credit eligibility generated in all five categories of U.T. Austin's program of credit by examination. Credit eligibility was established by 8,129 institutional examinations, which represented 60% of the total of 13,514 test scores generating credit eligibility.

National administrations of College Board Achievement Tests ranked second in comparisons of test volume and credit eligibility. The evaluation of 5,871 (23%) scores yielded 9,034 (12%) semester hours of credit eligibility. The 2,768 scores warranting credit were 20% of the total number of test scores that generated credit eligibility.

The percentages change as one turns from comparisons among the testing categories to comparisons within each category (Figure 4). Ninety-eight percent (N = 82) of the 84 scores from national administrations of the CLEP

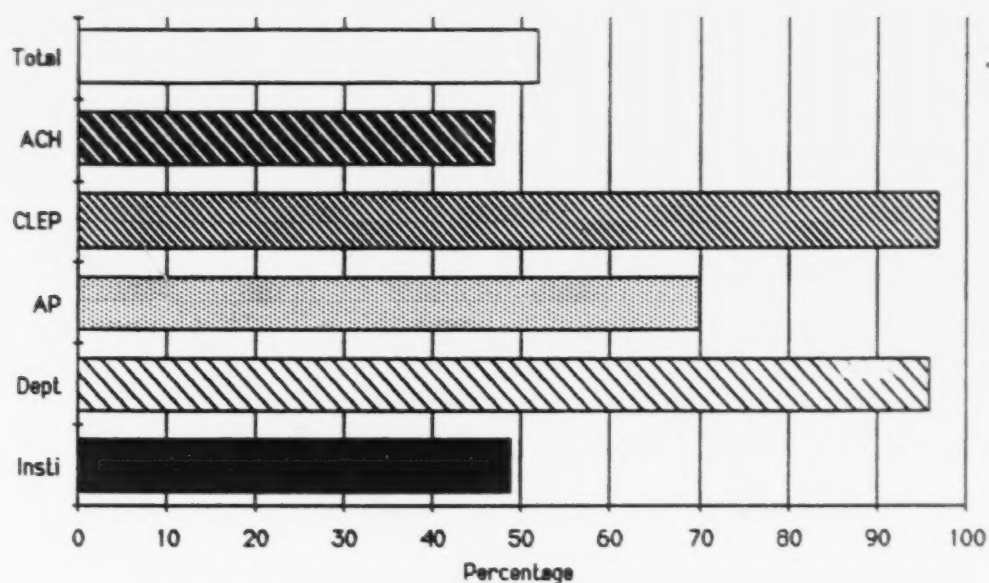


Figure 4. This figure indicates the percentages of test scores generating credit eligibility in the 1986-1987 testing program; the percentages are given within each category of test administration.

Subject Examinations merited credit eligibility, while 249 (96%) of the 260 departmentally administered individual examinations did so. National administrations of the Advanced Placement Examinations ranked third, with 2,268 (70%) of its 3,279 test scores generating credit. Institutional administrations of 16,529 tests and national administrations of 5,871 College Board Achievement Tests resulted in lower rates of successful performance: 49% and 47%, respectively.